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ANNUAL REPORT

OF

THE MINES DIVISION

OF THE

Department of Mines and Minerals

OF THE

PROVINCE OF ALBERTA

1951

EDMONTON:
PRINTED BY A. SHNITKA, QUEEN'S PRINTER,
1952

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Edmonton, Alberta,
February 14th, 1952.

To The Hon. N. E. Tanner,
Minister of Mines and Minerals.

Sir:

I herewith submit the Report of the Mines Division for the year ending December 31st, 1951.

Respectfully submitted,

John Crawford,
Director of Mines.

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ANNUAL REPORT OF THE MINES DIVISION FOR THE YEAR ENDING DECEMBER 31, 1951

(JOHN CRAWFORD, *Director of Mines*)

The output of coal produced from mines in the Province during the year 1951 was 7,661,276 tons, with a valuation of $41,000,953. This shows a decrease of 456,930 tons compared with the tonnage produced in 1950, which was 8,118,206 tons, with a decrease in valuation of $630,626.

During the year the number of manshifts totalled 1,683,061. This is a decrease of 52,255 manshifts in comparison with 1950. In that year the number of manshifts totalled 1,735,316.

This reduction in production and manshifts can be partly attributed to the following factors:—

(1) Use of substitute fuels.
(2) Shortage of miners during the peak production season; our figures confirm that a large number of men are leaving the mines and accepting other work in the Province, thereby creating a difficult situation particularly during the peak of the coal production season.
(3) Abandonment of 26 mines during the year.
(4) Some of the districts experienced a shortage of railway cars and in other districts a shortage of orders was evidenced.

The disposition of coal during the year was as follows:—

	Tons
Sold for consumption in Alberta	1,427,114
Sold for consumption in other Provinces	2,896,185
Sold to the United States	80,270
Sold to Japan	44,317
Sold to railroad companies	2,443,326
Used making briquettes	326,120
Used making fabricoal	1,980
Used making coke	6,957
Used under colliery boilers	128,564
Used by colliery railroads	830
Put to stock	205,660
Put to waste	325,158

The above tonnages include coal lifted from stock and waste heaps, which are not included in the total output.

The disposition of briquettes during the year was as follows:—

	Tons
Sold for consumption in Alberta	13,681
Sold for consumption in other Provinces	121,694
Sold to the United States	233
Sold to railroad companies	208,142
Put to stock	2,432
Lifted from stock	2,156—
Total output of briquettes	344,026

The disposition of coke during the year was as follows:—

	Tons
Sold for consumption in Alberta	1,611
Sold for consumption in other Provinces	1,548
Sold to the United States	1,461
Put to stock	165
Lifted from stock	791—
Lifted from waste	35—
Total output of coke	3,959

The disposition of fabricoal during the year was as follows:—

	Tons
Sold for consumption in Alberta	235
Sold for consumption in other Provinces	1,507
Total output of fabricoal	1,742

Mechanization of the mines is proceeding at a very satisfactory rate and includes tipples, cleaning plants, briquette plants, drying plants, diesel locomotives, coal drills and face loaders together with heavy electro-mechanical equipment for use in strip mines.

Of the output of coal 2,829,114 tons were produced from 76 strip mines operating in the Province. During the year production from stripping operations decreased 269,240 tons or 8.7% under 1950; in that year the total was 3,098,354 tons. There was a decrease of 23 strip mines in comparison with 1950, when 99 strip mines were in operation.

During the year 12 quarries produced 553,275 tons of shale, clay and limestone, from which 30,483,173 bricks and 34,084 tons of hollow tile were made. In addition to the above output, 1,953 tons of shale, clay and limestone were imported from Saskatchewan.

There were 179 mines producing coal during the year, of which 5 were opened, 54 re-opened, 63 closed and 26 abandoned. At December 31st, 151 mines were in operation.

There were 8,232 men employed during the month of December, this being a decrease of 433 in comparison with the corresponding month for 1950.

During the year there was a total of 798 miners' certificates, miners' provisional certificates, and miners' permits issued by the Inspectors, enabling the holders to proceed to the coal face as miners. This represents a decrease of 78 in comparison with 1950.

During the year there were 3 first class or mine managers' certificates, 5 second class or overman's certificates, 21 third class or examiners' certificates, 5 mine surveyors' certificates, 2 first class mine electricians' certificates, and 5 second class mine electricians' certificates granted. In addition, 6 strip mine managers' certificates, 39 strip mine foremans' certificates, and 6 strip mine blasters' certificates were granted.

Nine examinations were held throughout the Province for coal miners' certificates of competency, and 228 certificates issued to successful candidates. There were also 516 miners' permits and 54 miners' provisional certificates issued by the inspection staff; 37 duplicate miners' certificates were issued by this office.

926 inspections were made under the terms of The Coal Mines Regulation Act and 466 inspections in connection with the Workmen's Compensation Board regulations, comprising a total of 1,392 inspections made at mines by the Mines Division inspection staff during the year.

25 samples of mine air were taken during the year by the Inspectors and forwarded to the Chemistry Branch of the Department of Mines and Resources, Ottawa, for analysis. This has been done in addition to the tests made with the M.S.A. methane and other gas detectors.

104 samples of coal and coal-dust were collected and forwarded to the Research Council of Alberta, Edmonton, for analysis.

All fatal and serious accidents have been investigated by the Inspectors, who also attended the inquests held in their districts, this being in addition to the regular inspection of the mines. All complaints made to the Department were investigated.

There were 27 prosecutions instituted for contraventions of The Coal Mines Regulation Act, made up as follows: 1 owner, 1 agent, 2 operators, 3 mine managers, 2 strip mine managers, 3 overmen, 1 examiner, 4 firebosses, 2 machine bosses, 2 driver bosses, 1 miner, 2 drillers, 1 haulageman, 1 timber packer, 1 haulage hand.

The purchased electrical power by the mines was 50,956,876 k.w. hours, this being an increase of 538,847 k.w. hours in comparision with 1950. During the year the number of mines using electrical power was 93, a decrease of 4 under 1950. The number of electrical coal cutting machines in use was 183, a decrease of 14 under 1950, and the total horse power of electrical motors in use, both above and below ground, was 63,525 h.p., an increase of 2,071 h.p in comparison with 1950.

It will be noted from the reports of the District Inspectors and Electrical Inspector that in the matter of installation of new equipment, very satisfactory progress is being made.

The trend towards the use of protective equipment in the mines is proceeding satisfactorily, there being in use during 1951: 4,668 hard hats, 3,517 pairs of safety shoes, 552 pairs of goggles and 254 pairs of knee pads.

The number of fatal accidents during the year was 9 as compared with 20 in 1950. This equals 1.17 fatals per million tons of coal produced.

As regards the aforementioned fatalities, 3 occurred on the surface and 6 underground, causes of the fatal accidents being as follows: fall of coal 1, fall of rock 3, haulage 2, strip mining 2, tipple machinery 1. There was a decrease in the number of accidents reported to this office during the year in comparison with 1950; i.e. during 1951 a total of 147 accidents were reported to this office while the corresponding total for 1950 was 203.

A total of 9 approved diesel locomotives are now in operation in the mines of the Province located as follows: 1 operated by the Luscar Coals Ltd., Luscar; 1 operated by the International Coal and Coke Co. Ltd., Coleman; 2 operated by the Lethbridge Collieries Ltd., Lethbridge; 5 operated by the West Canadian Collieries Ltd., Blairmore. In addition approval has been granted by this office for the installation of 1 diesel locomotive at each

of the following mines: Saskatchewan Federated Co-Ops Ltd. (Hy-Grade Mine), Drumheller; Cadomin Coal Co., Cadomin; Foothills Collieries Ltd., Foothills. Mines Division field inspectors have been instructed to maintain a very close check on the behaviour of these machines under normal operating conditions and our Inspectors' reports indicate the machines are giving highly satisfactory service.

The present trend at many of the large mines is for complete mechanization in both underground and stripping operations, particularly with the introduction of diesel operated haulage locomotives.

The Provincial Board of Examiners during the year 1951 consisted of the following:

As representing—

(a) The Mines Inspectorate: John Crawford, Director of Mines.

(b) Mine Managers: A. Crawford and William Wilson.

(c) Working Miners: Andrew Campbell and D. J. Holly.

Secretary: Muriel Roberts.

Due to resignation from Central Board of Examiners of Mr. William Wilson, Canmore, as of September 1st, 1951, Mr. Peter M. Ramsay, Priddis, was appointed a member of the said Central Board of Examiners, such appointment to be effective as of September 1st, 1951.

Examinations during the year were held as follows: For First and Second Class at the following centres: Calgary and Edmonton, on June 5th, 6th and 7th; For Third Class at the following centres: Blairmore, Lethbridge, Edmonton, Cadomin and Drumheller on May 29th; For Mine Surveyor at the following centres: Calgary and Edmonton on June 7th; For Mine Electrician at the following centres: Lethbridge, Edmonton, Cadomin and Drumheller on May 29th. In addition Strip Mine Examinations during the year were held as follows: For Strip Mine Managers at the following centres: Calgary and Edmonton on June 8th: For Foremen and Blasters at the following centres: Edmonton, Blairmore, Lethbridge, Cadomin and Drumheller on May 29th and 30th, and Edmonton on November 13th.

A surface fire took place at Mine No. 129, Sundance Mines Ltd., Cardiff, on January 13th, 1951, completely demolishing their tipple. A new tipple has been erected. Mr. J. Thomson, District Inspector of Mines, Edmonton, investigated the fire.

As of February 1st, 1951, a fire occurred in Mine No 1484, Atlas Mine, Century Coals Ltd., Drumheller, as a result of a coal cutting machine's trailing cable bursting into flames on the reel. The power was immediately cut off and the fire extinguished. The fire caused little damage. Mr. J. Horne, District Inspector of Mines, Drumheller, made an investigation of this occurrence.

As of February 12th, 1951, a recurrence of heating occurred in the goaf area of 3 South adjacent the mine intake airway at Mine No. 367, Midland Coal Mining Co., Drumheller. Mr. R. Shaw, District Inspector of Mines, Stettler, was instructed by this office to immediately proceed to the mine in question to supervise and investigate conditions as they existed; in addition the men at the mine were immediately withdrawn. A safety program was adopted whereby concrete seals were constructed in order to isolate the heating and in a short time the mine resumed normal operations.

As of March 6th, 1951, a recurrence of heating occurred between 4 level South entry and counter at Mine No. 771, Foothills Collieries Ltd., Foothills; two days production were lost while the area was being sealed off, a concrete wall was built along the rib from the clay stopping in their No. 4 level entry to within 10 feet of the counter. Mr. A. L. Lister, District Inspector of Mines, Edson, visited the mine and conducted an investigation.

As of April 4th, 1951, an area of heating approximately 70 ft. in length and 40 ft. in width was discovered on the outcrop of No. 2 Seam at Mine No. 905, Luscar Coals Ltd, Luscar. Mr. A. L. Lister, District Inspector of Mines, Edson, was instructed to proceed to the mine and investigate the condition. Preparations were undertaken to correct the condition and upon successfully completing the sealing-off procedure, extraction of coal was recommenced.

A small underground fire of apparent electrical origin occurred on April 25th, 1951 at Mine No. 99, Great West Coal Co. Ltd., Clover Bar. The condition was investigated by Mr. J. Thomson, District Inspector of Mines, Edmonton and Mr. B. Tait, Electrical Inspector of Mines, Edmonton. Immediately subsequent to the fire discovery, the mine management eliminated the heating and loaded all burning material out of the mine.

During the early part of May of this year the fire in the No. 3 West level in the mine operated by McLeod River Hard Coal Co. (1941) Ltd., Mercoal, broke through to their No. 4 West level. Mr. J. A. Dutton, Asst. to the Director of Mines and Mr. A. L. Lister, District Inspector of Mines, Edson, were instructed to proceed to the mine for a complete investigation. Due to the advanced stage of the conflagration it became necessary for the management to completely seal off near the main slopes, all roadways on the West side connected to the affected area.

As of July 5th, 1951, a surface fire at Mine No. 1436, Royalty Coal Co., Drumheller, destroyed four coal loading chutes. This fire was caused by spontaneous combustion which took place in the rock fill upon which the chutes were built. Adequate protection was given to safeguard the underground workings. Mr. J. Horne, District Inspector of Mines, Drumheller, investigated the fire.

On November 20th, 1951, a small underground fire was discovered at the old East mine portal at Mine No. 693, Cadomin Coal Co., Cadomin. Water was immediately applied to the

heating and in a short time the heating was eliminated. The area was covered with surface dirt to prevent any air getting into the area that had been burning. Mr. A. L. Lister, District Inspector of Mines, Edson, investigated the condition.

Flood waters at Drumheller as of April 4th, 1951, rendered approximately 200 persons homeless and seriously impeded road traffic in that vicinity. A serious result of the flood was that one end of the bridge at Rosedale, connecting the community with the Monarch Mine, was washed into Rosebud Creek.

As a result of an explosion at the Rosedale Collieries Ltd. (Star Mine), Aerial, that occurred October 31, 1950, wherein one man was fatally injured and 2 others seriously injured, this office, subsequent to court proceedings, suspended the certificates of the mine manager and mine overman for an indefinite period as of May 26th, 1951. The mine manager's certificate was restored December 20th, 1951.

The matter of oil companies drilling through deposits of coal, especially in areas where operating mines are located, necessitated additional responsibility to the Director of Mines in the interests of the safety of the underground miner who may be at present, or in the future, in close proximity to an oil well. Regulations in this connection establishing procedure and authority were instituted.

The Carbonite Corporation of Canada Ltd. have erected and put into operation fabricoal (briquette) plant immediately adjacent the newly constructed cleaning and sizing plant of strip mine No. 864, operated by the Big Valley Collieries Ltd.

The year 1951 was free of labour disputes and work stoppages, and there have been no serious disasters.

At the present time there is a shortage of experienced miners, particularly in the sub-bituminous field where the operations are seasonable. These mines depend upon the workmen returning from harvest and other summer industrial operations. A tabulation of the manpower shortage indicates that 1,000 more men could be employed to satisfy the requirements. Fewer men are entering the industry for several reasons, a few of which are: plentiful employment elsewhere, military services, and because of the domestic field being seasonable the men are reluctant to leave their present employment to work in the mines.

During 1951 the following large-scale operations were abandoned: Mine No. 428, Banner Coals Ltd., Carbondale; Mine No. 775. Lakeside Coals Ltd., Robb; Mine No. 1095, Chester Mine, Lethbridge; Mine No. 1357, Red Hot Coal Co. Ltd., Edmonton; Mine No. 1366, Beverly Coal Co. (underground mine), Beverly.

There were no changes in the staff of the Mines Division during the year.

SUMMARY OF INFORMATION COMPILED FROM THE REPORTS OF THE INSPECTORS

(J. A. DUTTON, *Assistant to the Director of Mines*)

There were only two prosecutions during the year for failure to send or cause to be sent to this office on or before the 15th day of each month the Coal Operators' Monthly Statements showing the amount of coal mined, resulting in fines of $70.00 and costs of $9.50. In the latter part of the year the operators were very prompt in the forwarding of these returns and this fact is very much appreciated by the Dominion Bureau of Statistics and this office. It is to be hoped that there will be no violations in this connection during the coming year.

The Board of Examiners for Strip Mines, of which I am Chairman, met on two occasions during the year to deal with applications for certification. A total of 56 applications were received and approved of, including 4 applications from persons who are the holders of First Class (Mine Managers') Certificates, qualifying for a Strip Mine Managers' Certificate under Section 5(d)(i) of the Strip Mine Regulations. Three candidates presented themselves for examination for a Strip Mine Managers' Certificate, of whom two were successful. Forty-three presented themselves for examination for Strip Mine Foremans' Certificates of whom thirty-nine were successful. There were six successful candidates for Strip Mine Blasters' Certificates.

During the year Mr. R. E. Larson was appointed as member of the Strip Mine Board representing the strip mine workers, to replace Mr. S. Nicholson, who resigned. Heretofore examinations for Foremans' and Blasters' certificates were held only once in each year, the Board has now made arrangements for the conducting of examinations when sufficient applications for such are received. A special examination was held in Edmonton on November 13th, when thirteen of the aforementioned candidates presented themselves.

From February 1st to 5th, 1951, acting on instructions from the Director of Mines, I visited the Drumheller inspectorate to assist the District Inspector in the matter of prosecutions of two mine officials. Due to unforseen circumstances the cases in question were not completed and an adjournment was asked for and granted, a retrial was held and concluded three months later.

From April 23rd to 26th, 1951, I visited the Canmore district with the Inspector of that area, in connection with "bumps" in one of the mines there. A series of small bumps have been occurring in this district recently and considerable attention is being directed by all concerned in the matter of these phenomena.

On May 9th and 10th, 1951, I attended a Strip Mine Board meeting at Calgary.

From June 4th to 8th, 1951, I presided over the examinations held in Calgary.

Accompanied by the Director of Mines and other members of the staff, I attended a meeting in Calgary from September 9th to 11th, 1951, held with the mine operators for the purpose of drafting regulations governing the operation of diesel locomotives in mines. The regulations for this type of underground haulage have not as yet been finalized.

Acting on instructions from the Director of Mines and accompanied by other members of the staff, I attended the Western Annual Meeting of the Canadian Institute of Mining and Metalurgy in Calgary from October 2nd to 7th, 1951.

From December 11th to 13th, 1951, I accompanied the Inspector of the Edson district to some of the mines under his charge to deal with the matter of changes in the methods of mining operations.

EDMONTON-CAMROSE INSPECTION DISTRICT

(J. THOMSON, *District Office, Edmonton*)

There were 68 mines producing coal in this district during the year 1951, as follows: Camrose 5, Castor 18, Edmonton 23, Halcourt 2, Pembina 9, Tofield 5, Westlock 3, Wetaskiwin 1, Whitecourt 1, Rochester 1.

Of this number, 37 are strip pits located as follows: Camrose 5, Castor 5, Edmonton 9, Halcourt 1, Pembina 8, Tofield 4, Westlock 3, Rochester 1, Whitecourt 1.

I made 149 inspections of all operating mines, and all serious accidents and complaints were investigated.

154 inspections were made for the Workmen's Compensation Board.

I presided at the examinations held in the Legislative Building, Edmonton, for First Class Certificates, Second Class Certificates, Strip Mine Managers' Certificates and Mine Surveyors' Certificates on June 5th, 6th and 7th, 1951, also at the examinations for Third Class and Mine Electricians' (First and Second Class) Certificates on May 29th, 1951, and Strip Mine Foremens' Certificates and Strip Mine Blasters' Certificates on May 29th and 30th, 1951; an examination for Strip Mine Foremens' and Strip Mine Blasters' Certificates was held in the District Office, Edmonton, on November 13th, 1951.

One miners' examination was held in the Terrace Building, Edmonton, on November 5th, 1951; 29 candidates passed the examination and were issued miners' certificates; 76 miners' permits and 16 miners' provisional certificates were issued by this office during the year.

Thirty-one coal samples were collected and forwarded to the Research Council, University of Alberta, Edmonton, for analysis.

Four road allowance leases were issued in this district during the year as follows: 2 to the J. B. Starky Coal Co., St. Albert; 1 to the Edmonton Collieries Ltd., Namao; 1 to T. Strickland, Heisler.

Thirteen trade names were registered under The Coal Sales Act.

Two mine operators were prosecuted under the Strip Mine Regulations for failing to have a certificated person in charge of operations.

Two new mines were opened, located as follows: Mine No. 1722, slope opening, by John Navara, Debolt; Mine No. 1724, strip operation, by the Banner Coals Ltd., Cardiff.

Twenty-six mines were reopened in this district during the year.

Nine mines changed ownership as follows: No. 419, Alberta Coal Co. Ltd. to Alberta Southern Coal Co. Ltd.; No. 651, Baldwin and Cumber to Cumber and White; No. 1098, Long Coal Co. to Steve Kozmeniuk; No. 1463, Riverdale Coal Co. Ltd. to Riverdale Coals Ltd.; No. 1592, Dales Brothers to Mount Royal Collieries; No. 1627, Dickinson and Knight to Carbondale Collieries Ltd.; No. 1670, Lothian Collieries Ltd. to Pinter Coals Ltd.; No. 1712, W. S. Marcus to Fodor Brothers; No. 1718, L. Ose to William Jones, Jr.

Twenty-seven mines were temporarily closed in this district during the year.

Thirteen mines were abandoned as follows: No. 91, Ottewell Coal Co., Clover Bar; No. 428, Banner Coals Ltd., Carbondale; No. 1357, Red Hot Coal Co. Ltd., Edmonton; No. 1409, Gainford Collieries Ltd., Gainford; No. 1612, R. F. Prichard, Blue Ridge; No. 1616, Pinto Creek Coal Co. Ltd., Wembley; No. 1633, W. Fraser, Halcourt; No. 1636, J. B. St. Martin, Legal; No. 1682, Rybert Pearson, Canyon Creek; No. 1683, Continental Collieries Ltd., Seba Beach; No. 1701, R. S. Gailey, St. Francis; No. 1709, Crown Coal Co., Telfordville; No. 1711, Filipenko Bros., Castor.

One accident was reported to this office; it occurred on the surface.

Four miners went on strike at the Riverside Mine, Heisler. However, the dispute was settled in four days.

The manpower situation was very acute during the fall months, but improved towards the close of the year.

There were no shortage of orders during the fall and winter months, but during the spring and summer the mines were practically idle for lack of orders.

There were three quarries operating in this district as of December 31st, 1951, as follows: Quarry No. Q1, J. B. Little and Sons Ltd., Edmonton; Quarry No. Q5, The Acme Brick and Tile Co., Cannell; Quarry No. Q16, K. J. Dalen, Grande Prairie. Five quarry inspections were made during the year.

The following is a list of improvements and installations at the various mines in this district:

Mine No. 129, Sundance Mines Ltd.; new tipple replacing the one destroyed by fire.

Mine No. 724, S. H. Birnstad; new tipple with rotary screens.

Mine No. 1046, Alberta Coal Co. Ltd., large new tipple equipped with two hoppers, 100 tons and 175 tons capacity; McNally breaker double roll 25 h.p.; Riverside iron works breaker double roll 50 h.p.; 342 feet of Dominion rubber 4 ft. belt 35 h.p.; one Tyrock two deck screen and one Dillon three deck screen; 70 feet of 3 ft. belt 20 h.p.; 50 feet of 4 ft. belt 15 h.p.; 120 feet of 2 ft. belt 20 h.p.; 30 feet of 2 ft. belt 5 h.p.; 20 feet of 2 ft. belt 5 h.p.; one 7.5 h.p. motor for feeders.

Mine No. 1248, B. J. Gerla and W. Runge; one 50 K.V.A. Westinghouse 3 phase generator; one Sullivan CE7 coal cutter; one 7.5 h.p. Wagner motor; one General Electric 5 h.p. motor.

Mine No. 1266, Edmonton Collieries Ltd.; one Sullivan CE7 coal cutter.

Mine No. 1316, Samis Collieries Ltd.; one Sullivan CE7 coal cutter; one 3 h.p. plunger pump.

Mine No. 1495, Pembina Collieries Ltd.; one D2 tractor and overhead loader; storage bin for lump coal.

Mine No. 1578, Forestburg Collieries Ltd.; one 10 yard Marian dragline model 360, serial No. 6011; one Bucyrus Erie 2½ yard dragline; Viking oil sprayers for small coals; one Paris electric drill self propelled.

Mine No. 1582, Egg Lake Coal Co.; one Cincinnati coal drill type L.C.U., model 104, serial No. 191554, 220 volts, 4.5 amps, 330 r.p.m.

Mine No. 1626, J. B. Starky Coal Co.; dumping ramp and elevating conveyor.

Mine No. 1635, Morinville Collieries Ltd.; one Sullivan CE7 coal cutter; addition to the wash-house.

Mine No. 1697, M. Muyres and Sons; air compressor and radial coal cutter.

CALGARY INSPECTION DISTRICT

(A. Muir, *District Office, Calgary*)

There were 7 mines producing coal in this district during the year 1951, as follows: Nordegg 1, Saunders 2, Cascade 3, Pekisko 1.

During the year 96 inspections were made and reported upon in accordance with Section 5 of the Coal Mines Regulation Act. All serious accidents and complaints were investigated and reports on same were forwarded to the Director of Mines, Edmonton.

During the year 68 inspections were made for the Workmen's Compensation Board, all of which were reported to the Board.

I presided at the examinations held in Calgary for First Class Certificates, Second Class Certificates and Mine Surveyors' Certificates on June 5th, 6th and 7th, 1951.

One miners' examination was held at Nordegg, December 12th, 1951; 19 candidates were successful in obtaining their miners' certificates; in addition, 65 miners' permits and one miners' provisional certificate were issued by this office.

Eight coal samples were collected and sent to the Research Council, University of Alberta, Edmonton, for analysis.

Four road allowance leases were issued during the year.

Four prosecutions were instituted for contraventions of the Coal Mines Regulation Act and convictions were obtained in each case, as follows: One mine manager for failing to carry out the requirements of the Act by allowing an overman to fire shots in a large mine; one overman for firing shots in a large mine; one fireboss for tamping up shot holes in excess of the number permitted; one miner for detraining from a mantrip while same was in motion.

Two mines were reopened in this district during the year, as follows: Mine No. 388, Bighorn and Saunders Creek Collieries, Saunders, and Mine No. 1516, Ideal Coal Co., Priddis.

Two mines were temporarily closed in this district during the year, as follows: Mine No. 388, Bighorn and Saunders Creek Collieries, Saunders, and Mine No. 1516, Ideal Coal Co., Priddis.

During the year two fatal accidents occurred, one underground caused by a roof fall and the other resulted from a man caught by a belt on the tipple. Nine serious accidents were reported, 7 of which were underground, the other 2 being on the surface; in addition to this, 5 slight injuries were reported. The question of accidents and how to introduce various methods with a view to reducing same is discussed with the mine managers during the course of my mine inspections, and it will be noted there has been a marked improvement in the minor type of accident. This can be attributed to the vigilance of mine officials and more care exercised by the workmen.

Days lost through lack of railroad cars were as follows: Canmore Mines Ltd., 3 days; Kananaskis Exploration and Development Co. Ltd., 10 days. The labour relations question was quite satisfactory, with the exception of Mine No. 852, Alexo Coal Co. Ltd., Alexo., that lost six days through a machinemen's strike.

The lack of manpower has had a serious effect on production despite vigorous efforts by the mines to obtain workmen through the Unemployment Insurance Commission and also by contacting other coal production districts. Failure to obtain sufficient miners has resulted in a curtailed output.

There was a great deal of time lost through lack of orders at the various mines, namely: Canmore Mines Ltd., 2 days; Kananaskis Exploration and Development Co. Ltd., 15 days; Brazeau Collieries Ltd. was closed on account of fire to their tipple but the tipple has now been rebuilt and the mine is in operation; Bighorn and Saunders Creek Collieries, 76 days; Ideal Coal Co., 12 days; Frank Wheatley and Sons, Banff, suffered a sharp curtailment in production due to the installation of natural gas facilities at Banff.

There were four quarries operating in this district as of December 31st, 1951, as follows: Quarry No. Q2, Canada Cement Co. Ltd., Exshaw; Quarry No. Q3, Loader's Lime Co. Ltd., Exshaw; Quarry No. Q13, Rock Wool Products Ltd., Exshaw; Quarry No. Q15, Gypsum, Lime and Alabastine Canada Ltd., Calgary.

The following is a list of improvements and new installations at the various mines in this district:

Mine No. 2, Canmore Mines Ltd.; Tramair air locomotive; F-113 Joy single drum hoist; 2 mine telephones; 2 Joy conveyors; three 25 K.V.A. transformers.

Mine No. 256, Brazeau Collieries Ltd.; complete new tipple; new briquette plant consisting of four units, two 25 ton and two 30 ton per hour; 1 complete washery. This plant has been under construction for 18 months after a disastrous fire but is now operating to full capacity.

Mine No. 388, Bighorn and Saunders Creek Collieries Ltd.; one 1½ h.p. motor for pump on surface.

Mine No. 852, Alexo Coal Co. Ltd.; 1600 feet of 6 inch wood stave pump discharge.

Mine No. 1516, Ideal Coal Co.; a complete new tipple has been erected; several buildings have been built outside, including 1 power house 20 ft. x 24 ft. of concrete construction and housing two International U.D. 18 diesel units of 55 K.V.A. each; one blacksmith shop 12 ft. x 16 ft.; one scale house complete with Fairbanks Morse 15 ton scale; one bunk house 20 ft. x 30 ft.; one cookhouse 20 ft. x 40 ft., complete with built-in refrigerator; one new hoisting unit operated by a 40 h.p. motor; one armoured cable from surface to mine in bore hole, size 3/0 and 600 volt capacity; 4 Victor Trigger operated coal drills; 2 pumps; 1 Pomona with 5 H.P. motor; 1 Foreman with 2 H.P. motor.

Mine No. 1667, Kananaskis Exploration and Development Co. Ltd.; one 440 volt Joy safety service centre; one Huwood 30 inch 850 ft. belt conveyor driven by 25 H.P. English electric 440 volt motor; one Huwood 30 inch 240 ft. conveyor driven by a General Electric 7½ H.P. 440 volt motor; one mine fan driven by a General Electric 7½ H.P. 440 volt motor.

LETHBRIDGE INSPECTION DISTRICT

(E. H. MORGAN, *District Office, Lethbridge*)

There were 26 mines producing coal in this district during the year 1951, as follows: Brooks 2, Champion 5, Lethbridge 9, Milk River 1, Pakowki 1, Redcliff 1, and Taber 7.

Of this number, 6 are strip mines located as follows: Brooks 2, Lethbridge 1, and Taber 3.

During the year there were 116 inspections made and reported upon in accordance with Section 5 of the Coal Mines Regulation Act. All serious accidents and complaints were investigated and reported to the office of the Director of Mines.

In addition, there were 60 inspections made for The Workmen's Compensation Board.

Examinations were held for Third Class Certificates, Second Class Mine Electricians' Certificates, Strip Mine Foremen's Certificates and Strip Mine Blasters' Certificates on May 29th, 1951, at the office of the District Inspector of Mines, Lethbridge.

The Miners' Board held an examination for miners' certificates of competency at the office of the District Inspector of Mines, Lethbridge, on November 10th, 1951, and 41 candidates were successful. In addition, this office issued 127 miners' permits and 12 miners' provisional certificates during the year.

Three coal samples were collected and forwarded to the Research Council, University of Alberta, Edmonton, for analysis.

There were three road allowance leases issued in this district during the year.

Five trade names were registered under The Coal Sales Act.

A new mine was opened north of Taber by Omer J. Malo on September 15th, 1951. Name of the new mine is Taber Coal Co., and as this operation is on the same coal lease as Mine No. 228, which was operated by the Regal Collieries in 1923, the number of the new mine is 228.

Ten mines were reopened in this district during the year.

Mine No. 1672 that was operated as an underground mine by J. D. Vogel, near Rolling Hills, changed ownership May 15th, 1951, and is now operated as a strip mine by Cragg, Cragg and Oliver.

Eleven mines were temporarily closed in this district during the year.

Two mines were abandoned as follows: No. 1095, The Chester Mine, Lethbridge, and No. 1707, G. A. Naylor, Medicine Hat.

The number of accidents reported to this office was 9, which is a satisfactory reduction compared to the number reported in 1950, and I am pleased to report that there were no fatal acci-

dents. Seven serious accidents were reported, 5 of which were underground, the other 2 being on the surface; in addition to this, 2 slight injuries were reported.

It is pleasing to note that labour troubles were practically nil throughout the year. The Galt Mine, operated by the Lethbridge Collieries Ltd., Lethbridge, and the Federal Mine, operated by the J. J. Hamilton Coal Co., were idle for 19 days at the beginning of the year; the dispute had to do with the delivery of mine cars to the working face. When this dispute ended, harmonious relations prevailed throughout the rest of the year.

The question of obtaining sufficient certificated miners is still a problem at the mines in this district; yet there is a surplus of untrained men.

There were slightly more days lost due to the lack of orders in 1951 than in 1950, although one of the local mines had ceased to operate. The following is an account of the days lost: Galt Mine, 51 days; Standard Mine, 82 days; Federal Mine, 48 days. The first two mines are operated by the Lethbridge Collieries Ltd., Lethbridge, and the other mine by the J. J. Hamilton Coal Co., Lethbridge.

There were 6 quarries operating in this district as of December 31st, 1951, producing shale for manufacturing brick and tile; all situated in the Redcliff and Medicine Hat area, as follows: Quarry No. Q4, Gunderson Brick and Coal Co. Ltd., Redcliff; Quarry No. Q6, Redcliff Premier Brick Co. Ltd., Redcliff; Quarry No. Q7, Redcliff Pressed Brick Co. Ltd., Redcliff; Quarry No. Q9, Medicine Hat Brick and Tile Co. Ltd., Medicine Hat; Quarry No. Q10, Alberta Clay Products Co. Ltd., Medicine Hat; Quarry No. Q14, Medicine Hat Sand and Gravel Co., Medicine Hat.

The following is a list of improvements and installations at the various mines in this district:

Mine No. 1263, Lethbridge Collieries Ltd.; underground, 50 new mine cars were put into operation; surface, the tipple has been much improved by installing four spiral cleaners for stoker coal; one slack conveyor (apron type elevator), 10 H.P. motor; three small belt conveyors, each operated by a 10 H.P. motor; one rock belt conveyor with a 15 H.P. motor; two small belt conveyors, 2 H.P. each; one Tyrock vibrator screen with a 5 H.P. motor.

Mine No. 1464, Lethbridge Collieries Ltd.; five 1½ H.P. Victor coal drills; two 5 H.P. Meco blower fans; one 2 H.P. Myers gathering pump; three new mine cars; one 25 H.P. main and tail haulage unit.

Mine No. 1581, J. J. Hamilton Coal Co.; underground, one 5 in. x 6 in. Bulldozer pump replacing smaller sized pump; surface, one 25 H.P. motor on mine fan, replacing a 15 H.P. motor.

COALSPUR-MOUNTAIN PARK INSPECTION DISTRICT

(A. L. LISTER, *District Office, Edson*)

There were 12 mines producing coal in this district during the year 1951, as follows: Coalspur 6, Prairie Creek 2, Mountain Park 4.

Of this number, 5 are strip mines located as follows: Coalspur 3, Mountain Park 2.

There were 95 complete inspections made during the year and reported upon in accordance with the Coal Mines Regulation Act, and 16 partial inspections made where necessary; in addition, all complaints and serious accidents were investigated and all inquests attended.

Ninety inspections were made for the Workmen's Compensation Board.

One examination for miners' certificates of competency was held in Mercoal during 1951; 25 candidates were successful and granted certificates; during the year 64 miners' permits and 3 miners' provisional certificates were issued.

Twelve coal samples were collected from various mines in the district and forwarded to the Research Council, University of Alberta, Edmonton, for analysis.

Eleven mine air samples were collected and forwarded to the Department of Mines and Resources, Ottawa, for analysis.

There were four trade names registered under The Coal Sales Act in this district during the year.

There were eight prosecutions during the year and convictions were obtained in all cases. One miner and two firebosses were fined for contraventions of the Explosives Regulations of the Coal Mines Regulation Act; two strip drillers and two strip mine managers were prosecuted for violations of the Explosives Regulations, and one mine agent was fined for failing to file a production sheet as required in Section 79 of the Coal Mines Regulation Act.

During the year one underground mine was opened in this district, namely, Mine No. 1157, North Western Coal and Oil Ltd., Robb; this is in addition to their strip mine operation.

One mine was reopened in this district during the year, as follows: Mine No. 1692, Long Coal Co., Coalspur.

There has been a change of ownership at two mines in this district, as follows: Mine No. 1714, at Hinton, previously operated by C. M. Woodley and H. Schnur, is now operated by H. Schnur; Mine No. 1692, at Coalspur, previously operated by King Coal and Lumber Ltd., is now operated by Long Coal Co.

Two mines were temporarily closed in this district during the year as follows: Mine No. 1692, Long Coal Co., Coalspur; Mine

No. 1296, Dunn and Finlay, Hinton; in addition the strip mine at Mine No. 693, operated by Cadomin Coal Co., Cadomin, was closed.

One mine was abandoned as follows: Mine No. 775, Lakeside Coals Ltd., Robb; in addition the strip mine operated by Mine No. 769, Sterling Collieries Ltd., Sterco, was abandoned.

23 accidents were reported to this office during the year, including 2 fatal accidents, particulars in connection with the fatal accidents are as follows: a fireboss was crushed under a fall of coal; a caterpillar operator working at a strip mine was crushed under an overturned caterpillar. Of the remaining 21 accidents, 13 occurred on the surface of which 8 were classified as serious and 5 classified as slight. The 8 underground accidents were classified as 3 serious and 5 slight.

This district has been comparatively free from labour troubles during the year, with only one mine reporting one day lost due to a labour dispute.

The turnover of men in this district has been fairly low, but there has been a shortage of skilled miners at all underground mines. A shortage of strip men, experienced in the operation, maintenance and repair of strip machinery, has been realized at some strip mines in this district, as well as a shortage of certified officials.

Mines in this district lost about 40 days due to shortage of railway cars, and about 50 days due to lack of orders.

Only one mine in this district reports having increased absenteeism; generally this factor has been almost nil.

The following is a list of improvements and installations at the various mines in this district:

Mine No. 771, Foothills Collieries Ltd.; installed underground one air driven Ingersoll-Rand sump pump, high head type; purchased for underground use, but not yet installed one Ruston-Hornsby diesel locomotive, D.L.G. 30 type; on their tipple they have installed one Ding magnetic pulley, Perma type; oil treating system for stoker coal; they have also put a 158 h.p. return tubular boiler in their power plant.

Mine No. 846, McLeod River Hard Coal Co. (1941) Ltd.; installed on the surface a 24 in. x 36 in. double drum Vulcan steam hoist; one used main ventilating fan, installed on the surface at 4076 airway to ventilate 4 level east; underground, a rectifier and charging station has been built on 4 level east; a charging station has been built on 5 level. Since 4 level west was sealed off due to a fire, the Goodman and Jeffery trolley locomotives from that level have been put into service on 4 level east, as well as a General Electric storage battery locomotive for gathering. On 5 level east a Mancha Permissible storage battery locomotive has been installed while on 5 west a Mancha non-Permissible storage battery locomotive has been put into operation.

Mine No. 905, Luscar Coals Ltd.; installed at their No. 4 mine underground, one new Tramair locomotive; for their strip operation they have purchased and put into operation one second-hand 22-B coal loading shovel. During the summer a fairly extensive drilling program was undertaken, where approximately 20,000 feet of hole was drilled to prove both underground and strip reserves. No underground drilling was undertaken at this mine during the year. The new briquette unit, the installation of which was started late in the previous year, was completed and put into operation in February, thus increasing the hourly output to approximately 56 tons. Fifteen new houses have been built in Luscar by Luscar Coals Ltd. in an effort to attract miners, as it is felt that within the next two years many of their older miners will be retired under the terms of the Welfare Fund.

Mine No. 1002, Sterling-Coal Valley Mining Co., purchased and put into operation on their strip mine one used 52-B Bucyrus-Erie 2½ yard capacity diesel shovel, which was later converted to a 2½ yard dragline. About 720,000 cu. yards of overburden was moved in stripping operations at this mine and approximately 4,200 feet of diamond drilling was done for the purpose of tracing and proving coal reserves. An extension 20 ft. x 28 ft. has been added to the warehouse to provide additional storage space; this building is of wood construction covered with corrugated iron.

Mine No. 1157, North Western Coal and Oil Ltd., have made the following improvements and installations: For their tipple they have purchased and put into operation one refuse conveyor belt, 30"; one Ottumwa lump loader; one Cisson's stoker loader; one small-coal conveyor 30" belt; three Birtley air tables; two Niagara vibrating screens; one bucket-type elevator; three exhaust fans for air tables. For their power house, one Fairbanks Morse 400 h.p. diesel electric generator and building, and one steam heating boiler and building. They have purchased one D-8 caterpillar with bulldozer for coal cleaning on their strip operation, while the stripping of overburden at this mine is contracted to a private company. They have started an underground operation at this mine and have put a slope down about 760 feet from the portal; in connection with this they have purchased one 600 c.f.t. diesel compressor; one 100 h.p. electric hoist; 100 model R4 Edison cap lamps; five Victor air drills; two duplex air pumps and a main ventilation fan; a wash-house with about 70 lockers has also been provided.

CROWSNEST INSPECTION DISTRICT

(J. D. B. Brown, *District Office, Blairmore*)

There were 9 mines producing coal in this district during the year 1951, as follows: Crowsnest 8, Pincher 1.

Five strip mines were in operation during 1951, all in the Crowsnest area. The following coal companies operate strip mines in conjunction with their underground operations: Mine

No. 87, West Canadian Collieries Ltd.; Mine No. 88, International Coal and Coke Co. Ltd.; Mine No. 204, McGillivray Creek Coal and Coke Co.; Mine No. 396, West Canadian Collieries Ltd. (two pits); Mine No. 1695, Hillcrest Mohawk Collieries Ltd.

There were 95 complete inspections and 53 special inspections made by Mr. P. Melson, Assistant District Inspector of Mines, and myself during the year. We also made visits to the various mines for the purpose of collecting coal, coal dust, rock dust and mine air samples. All serious accidents and complaints were investigated and remedial measures instituted when such were required.

Ninety-five inspections were made on behalf of the Workmen's Compensation Board.

An examination was held at the Union Hall, Blairmore, on May 29th, 1951, for candidates for Third Class Certificates and Strip Mine Foremen's Certificates.

Examinations were held in this district for candidates for miners' certificates of competency on the following dates and locations: Coleman, February 26th; Coleman, July 7th; Bellevue, November 13th; 51 miners' certificates were granted at these sittings, and in addition 78 miners' permits and 14 miners' provisional certificates were issued during the year.

Three coal samples were collected and forwarded to the Research Council, University of Alberta, Edmonton, for analysis.

Fifty coal and rock dust samples were collected and tested by volumeter at the District Office laboratory. Eight samples were sent to the Research Council, University of Alberta, Edmonton, for analysis.

Two mine air vacuum bottle samples were collected and forwarded to the Bureau of Mines, Ottawa, for analysis.

Four road allowance leases were issued in this district during the year.

One trade name was registered under The Coal Sales Act.

Three prosecutions were instituted under the provisions of the Coal Mines Regulation Act for contraventions of same and were as follows: One owner for not filing proper production returns; one timber packer for having in his possession a prohibited article; one fireboss for failing to make a proper preshift inspection. All were convicted and fined.

One new mine was opened as follows: Mine No. 1721, Link, Link, Kobza and Walker, Pincher Creek.

The strip mine operated by the West Canadian Collieries Ltd. at Adanac was closed temporarily.

Three mines were abandoned as follows: Mine No. 1440, Rhodes Mining Co., Lundbreck; Mine No. 1710, Racehorse Coal Co., Coleman; Mine No. 1721, Link, Link, Kobza and Walker, Pincher Creek.

There were 47 accidents reported to this office during the year and 3 of these were fatalities. On the surface, there were 15 accidents classified as follows: 1 fatal, 7 serious and 7 slight. Hazards in connection with machinery were the cause of two-thirds of the surface accidents. There were 32 accidents underground as follows: 2 fatalities, 21 serious, and 9 slight.

Working days lost during the year amounted to 64, a big improvement when compared with 275 days lost in 1950. The storms of last winter caused the mines to lose about 3 days each and a shortage of railway cars cost the mines about six days each. This has been the best year with regard to the number of days worked since the five-day week was instituted.

The labour situation has steadily improved throughout the year. One of the mines in this district sharply reduced its working forces and the resultant extra men were quickly absorbed by the other mines, who were at that time looking for workmen.

There was one quarry operating in this district as of December 31st, 1951, as follows: Quarry No. Q8, Summit Lime Works Ltd., Crowsnest.

The following is a list of improvements and installations at the various mines in this district:

Mine No. 87, West Canadian Collieries Ltd., has installed one Parry Flash drier of 70 ton capacity, and utilizing approximately 192 h.p. in the various motors used in the plant comprising same. Underground, they have installed one Ingersoll hoist, 174 h.p. to hoist from 9 level to 8 level, current for same is 2,200 v, 60 cycle, 3 phase; also one shuttle car and car loader, both driven by compressed air and used in connection with the Joy loader.

Mine No. 88, International Coal and Coke Co. Ltd., have installed a 4 ft. 6 in. Vissac drier and made some improvements to the dust collection system. They purchased 3 Ford trucks and installed underground 3 Joy airlegs for use in the rock tunnels.

Mine No. 133, Hillcrest Mohawk Collieries Ltd., installed a Vissac "Pulsa" drier of 70 ton capacity at the tipple in Bellevue.

Mine No. 396, West Canadian Collieries Ltd., have installed the following on the surface: 1 Parry Flash drier of 60 ton capacity, including the following accessories: 2 flight conveyors, 2 fans, oil pump, dust feeder rod mill, dry coal extractor. One Lamex plant, including the following: 2 flight drags, 2 elevators, 3 Dillon screens, 2 water pumps. The total horsepower in the Parry is 192, and in the Lamex plant about 75 h.p. Underground, they have one more diesel locomotive, Hunslet 65 h.p., making a total of four now in use at this mine. A new Wemco plant has been built and is now in use near the mine. It was built for Tollestrop and Leavitt, and is processing waste coal to produce a low ash product of about 400 tons per day.

Mine No. 1584, West Canadian Collieries Ltd., have added on the surface one 300 h.p. Cummins diesel engine for the Hayes-

Lawrence 50 ton truck; 8 model "P" cap lamps. Underground, they have installed 15 new 3 ton mine cars and six P-38 air picks.

Mine No. 1695, Hillcrest Mohawk Collieries Ltd., installed one 22-B Bucyrus-Erie shovel of 1 yd. capacity and 2 F.DE Cle-tracs, also built new roads on the mountain.

DRUMHELLER INSPECTION DISTRICT

(J. HORNE, *District Office, Drumheller*)

There were 16 mines producing coal in this district during the year 1951, as follows: Drumheller 12, Gleichen 4.

Of this number, one is a combined underground and strip mine operation: Mine No. 1511, Aetna Coals Ltd., Wayne.

There were 102 inspections of mines made in this district during the year; in addition, all serious accidents and complaints were investigated and reported upon to the Director of Mines.

Ninety-two inspections were made and reported upon to the Workmen's Compensation Board.

Examinations were held for Third Class Certificates, First and Second Class Mine Electricians' Certificates, and Strip Mine Foremen's Certificates in Drumheller on May 29th, 1951.

Miners' examinations were held in Drumheller March 9th, 1951, and October 26th, 1951, and 63 miners' certificates were issued. During the year 7 miners' permits and 7 miners' provisional certificates were issued.

Eighteen coal samples were collected and forwarded to the Research Council, University of Alberta, Edmonton, for analysis.

Seven mine air samples were collected and forwarded to the Bureau of Mines, Department of Mines and Resources, Ottawa, for analysis.

Three road allowance leases were issued in this district during the year.

Three trade names were registered under The Coal Sales Act.

Seven prosecutions were instituted for contraventions of the Coal Mines Regulation Act; 4 convictions were gained, viz.: 1 examiner for uttering false statement; 1 miner for unlawful interference with electrical apparatus; 1 miner for unlawful interference with ventilating apparatus; 1 overman for committing a dangerous act.

Mine No. 1511, Aetna Coal Ltd., Wayne, commenced strip mining in addition to the underground operation.

One mine was temporarily closed in this district during the year as follows: Mine No. 1436, Royalty Coal Mining Co., Drumheller.

Four mines were abandoned as follows: Mine No. 728, Maple Leaf Coal Co. Ltd.; Mine No. 1666, Allan Livingstone, Nacmine; Mine No. 1688, David H. Jones, Nacmine; Mine No. 1700, J. A. McLeod and C. C. Paxton, Drumheller.

Thirty-four accidents were reported to this office during the year. There were 3 surface accidents, all classified as serious; 31 underground accidents, classified as 2 fatal, 19 serious and 10 slight.

Mine No. 422, Commander Mine, went on strike for one day, February 14th, 1951, due to the miners' demand that machine cuttings be gobbed by the company.

Mine No. 422, Commander Mine, went on strike for one day, March 29th, 1951, due to dismissal of tipple workman; workman was reinstated.

Mine No. 436, Star Mine, went on strike for the period October 11th, 1951, to October 13th, 1951; tipple workmen demanded that tipple foreman be dismissed; foreman was not dismissed.

During the year the mines in this district lost 50 days due to shortage of railway cars, and 201 days as a result of lack of orders.

During the early fall season complaints were received from the mechanized mines that a shortage of skilled labour was curtailing production, since the termination of the harvest period no complaints have been made.

Mr. I. Potter, mine manager, was appointed to the miners' examination board during the year.

The following is a list of improvements and installations at the various mines in this district:

Mine No. 346, Rosedale Collieries Ltd., one Victor permissible stone drill and an oiling unit to treat stoker and nut size coal.

Mine No. 402, Red Deer Valley Coal Co. Ltd., one 3 table Birtley air cleaner to clean ½" to 4" sized coal; one 8BU permissible Joy loading machine; 5 Joy battery operated shuttle cars and 2 battery charging M.G. sets.

Mine No. 422, Commander Mine, one oiling unit to treat stoker and nut size coal.

Mine No. 436, Star Mine, one Sullivan Ironclad shearing machine.

Mine No. 1299, Empire Mine, two 80 h.p. Oldroyd Universal coal cutters; 82 R4 Edison battery cap lamps and a 18 ft. x 20 ft. frame lamp cabin.

Mine No. 1484, Atlas Mine, one Joy airvane fan directly connected to a 10 H.P. motor; one 14 BU-7GB Joy loading machine; one Victor stone drill; one 3 H.P. Frano portable conveyor; one 3 ton Maple Leaf truck and a 26 ft. x 14 ft. frame garage.

Mine No. 1491, Murray Collieries Ltd., one 30 H.P. CE7 Sullivan shortwall undercutter; one 5½ ton Atlas storage battery locomotive; one portable 7½ H.P. rail straightener.

Mine No. 1511, Aetna Coal Ltd., one Mancha "Titan A" storage battery locomotive.

Mine No. 1521, W. McMillan, one 10 H.P. 5B Sullivan undercutter.

Mine No. 1573, Monarch Coal Mining Co. Ltd., one Clarkson Red Bird track mounted loading machine; one Victor stone drill; two 100 K.V.A. Pyranol transformers; one L 190 International truck; one 16 ft. x 20 ft. frame garage; two dwelling houses for employees 26 ft. x 28 ft.; two dwelling houses for employees 24 ft. x 26 ft., and a double 600 ft. extension of railway tracks for empty car storage.

STETTLER INSPECTION DISTRICT

(R. Shaw, *District Office, Stettler*)

There were 44 mines operating in this district as of December 31st, 1951, as follows: Drumheller 8, Carbon 12, Big Valley 3, Ardley 7, Castor 7, Sheerness 6, Red Deer 1.

Of this number 21 are strip mines located as follows: Drumheller 2, Carbon 4, Big Valley 2, Ardley 5, Castor 3, Sheerness 5.

One hundred and five inspections were made and reported upon in accordance with Section 5 of the Coal Mines Regulation Act; all serious accidents and complaints were investigated and reported upon to the Director of Mines.

Sixty-one inspections were also made for the Workmen's Compensation Board.

Twenty-nine miners' permits and 1 miner's provisional certificate were issued by this office during the year.

Twenty-nine coal samples were collected and forwarded to the Research Council, University of Alberta, Edmonton, for analysis.

Five mine air samples were collected and forwarded to the Department of Mines and Resources, Ottawa, for analysis.

Six road allowance leases were issued in this district during the year.

Three trade name certificates were issued under The Coal Sales Act.

Three prosecutions were instituted for contraventions of the Coal Mines Regulation Act; one workman was proceeded against on two counts, the first for entering a mine and the premises thereof without having received lawful authority, secondly for

being underground in a state of intoxication; a second workman was also proceeded against for entering a mine and the premises thereof without having received lawful authority.

Two new mines were opened, located as follows: Mine No. 1723, Eugene Beaudet, Munson; Mine No. 1448, Sundre Coal, Sundre.

Fifteen mines were reopened in this district during the year.

Mine No. 1613, Ardley, changed ownership from James McDowell to Elnora Construction Co. Ltd.

Twenty mines were temporarily closed in this district during the year.

One mine was abandoned as follows: Mine No. 486, Alfred Litke, Dowling.

Seventeen accidents were reported to this office during the year. There were 4 surface accidents, all classified as slight; 13 underground accidents, classified as 7 serious and 6 slight.

Labour troubles within this district resulted in a loss of three production days; a drivers' dispute at the Brilliant Coal Co. accounted for one of the days; the remaining two days were lost at the Hy-Grade Mine and were caused by the following reasons: Dismissal of a miner who was later reinstated, and, workmen objecting to the management's employ of a certain miner.

There was a definite shortage of skilled miners during the fall of 1951; this condition applied in particular to personnel accustomed to the present trend of mechanized mining.

There were 81 days lost at the mines due to a shortage of orders and 13 days lost owing to a shortage of railroad cars; in addition, absenteeism accounted for 10 days lost, and mine disability 1½ days.

There was one quarry operating in this district as of December 31st, 1951, as follows: Quarry No. Q11, Gordon L. Kidd, Drumheller.

The following is a list of improvements and installations at the various mines in this district during the year:

Mine No. 194, A. A. McArthur, two D7 caterpillar tractors, one Letourneau scraper, ripper and bulldozer; one 1500 gallons per hour rubber tired Rex pump.

Mine No. 367, Midland Coal Mining Co. Ltd., 180 model R.A. Edison electric mine cap lamps.

Mine No. 1060, East Carbon Coal Co., one 15 ton Fairbanks Morse truck scale.

Mine No. 1258, Brilliant Coal Co., oil treating system installed to treat nut and stoker coal.

Mine No. 1283, Halbert and Bierle, installation of electrical power; one 4 h.p. Buxton approved Siskol coal cutter.

Mine No. 1488, Allyn Mann Construction, 200 amp. gasoline powered welder.

Mine No. 1515, Empress Coal Co., portable compressor and one radial coal cutter.

Mine No. 1597, Crystal Mine, one Fairbanks Morse 30 tons capacity truck scale; one 400 gallons per minute Monarch pump; one D6 caterpillar with Bucyrus 8 foot blade; one Bates overhead loader.

Mine No. 1661, R. Campkin and Sons, one Fairbanks Morse portable 45 h.p. compressor.

Mine No. 1675, J. Lynass, one R.D.7 caterpillar; one Hoover dozer and one Laplante-Shote scraper.

ELECTRICAL INSPECTION OF MINES

(B. Tait, *Electrical Inspector of Mines*)

During 1951 there were 98 mines in Alberta using electrical equipment. Five of these ceased operations during the year, leaving 93 electrified mines in operation at December 31st, 1951. In addition to the above, three small mines use only miners' electric lamps, battery charging apparatus or electric signals.

Mines electrified during 1951: Mine No. 228, Taber Coal Co., Taber; Mine No. 1248, Gerla and Runge, Donalda; Mine No. 1516, Ideal Coal Ltd., Priddis.

Electrified mines abandoned during 1951: Mine No. 428, Banner Coals Ltd., Edmonton; Mine No. 1095, Chester Mine, Lethbridge; Mine No. 1357, Red Hot Coal Co., Edmonton.

Electrified mines closed during 1951: Mine No. 1419, Pine Creek Collieries Ltd., Edmonton; Mine No. 1436, Royalty Coal Co., Drumheller.

One hundred and seven complete inspections and three partial inspections were made at the mines during 1951. All mines using electrical equipment were inspected during the year, except three small mines. These mines started using electricity late in the season or after the mines in their respective districts had been inspected.

Three quarries are using electrical equipment in connection with the operation of their pits. Equipment being used consists of electric shovels, draglines, compressors, earth shaving machines, shot-firing lines and apparatus, explosive magazine lighting and heating.

Five inspections were made of the electrical installations at quarries. In addition, eight inspections were made of the plants

in connection with and owned by the companies operating the quarries. Electrical inspection of these plants has since been turned over to the Department of Industries and Labour.

I am pleased to report no fatal or serious accidents due to the use of electricity. Five minor accidents were reported, three being burns and two flashes in front of eyes.

Major electrical installations at mines during 1951 are as follows:

Mine No. 256, Brazeau Collieries Ltd., Nordegg, new tipple, cleaning plant, briquette plants, etc., with motors totalling 2674 H.P. Switchgear and controls installed in switch rooms.

Mine No. 1046, Alberta Coal Co., Halkirk, new tipple and coal preparation plant, with motors totalling 285 H.P.

Mine No. 1157, North Western Coal and Oil Ltd., Robb, one 375 K.V.A., 2300 volt, diesel driven generator and motors totalling 372 H.P.

Mine No. 1578, Forestburg Collieries Ltd., Forestburg, one Marion stripping shovel with a 435 H.P., 4160 volt main motor.

Mine No. 87, West Canadian Collieries Ltd., Bellevue Mine, Bellevue, one 200 H.P., 2300 volt hoist underground. In tipple, cleaning and drying plants, motors totalling 220 H.P.

Mine No. 396, West Canadian Collieries Ltd., Greenhill Mine, Blairmore, motors totalling 655 H.P. mostly for cleaning and drying coal.

Mine No. 402, Red Deer Valley Coal Co. Ltd., Drumheller, motors to 298 H.P. above ground in coal preparation and 175 H.P. underground.

Mine No. 1573, Monarch Coal Mining Co. Ltd., East Coulee, motors totalling 131 H.P. underground including one new Clarkson face loader.

Mine No. 905, Luscar Coals Ltd., Luscar, a second briquette plant with motors approximately 420 H.P.

There were numerous smaller installations during 1951 with motors to a total of approximately 7,828 H.P., exclusive of above "major installations".

The total horsepower of motors, connected load, in use at mines in 1951 is as follows:

Surface		Underground	
Duty	H.P.	Duty	H.P.
Winding	9,468	Pumping	5,606
Ventilation	2,936	Rope Haulage	1,239
Air Compressing	6,515	Conveying and Loading	1,723
Tipples and Preparation	15,507	Cutting and Drilling	6,657
Miscellaneous	10,637	Miscellaneous	3,128
Total	45,063	Total	18,353

Total above and below ground—63,416 H.P.

The figures below show the trend in the use of certain types of electrical equipment underground.

	1945	1946	1947	1948	1949	1950	1951
Coal cutting machines	147	155	166	184	184	197	183
Battery locomotives	32	37	39	39	41	47	46
Trolley locomotives	15	16	19	22	23	29	29
Conveyors	23	27	38	47	74	92	82
Coal drills	31	40	52	59	79	91	93
Mobile face loaders	—	—	1	6	7	7	11

Kilowatt hours of energy purchased by mines from Central Stations:

Year	K.W.H.
1939	27,575,926
1940	31,660,119
1941	35,973,384
1942	41,491,573
1943	41,491,378
1944	39,349,384

Year	K.W.H.
1945	42,790,653
1946	46,012,415
1947	47,892,597
1948	49,724,365
1949	53,590,982
1950	50,418,029
1951	50,956,876

The majority of electrified mines are supplied with power from Central Stations. In addition, there were in use during the year, local steam plants with a capacity of 7273 K.V.A. and diesel and gasoline plants with a capacity of approximately 2231 K.V.A.

On the whole, the new work at mines is of a high standard and maintenance of existing installations is quite satisfactory. Equipment in dusty locations in tipples, cleaning and drying plants has received considerable attention during the year, with a view towards eliminating ignition hazards. In most cases, motor starters, switchgear, etc., have been moved to safer locations in dust-free switch rooms. Approved dust-proof apparatus has been installed where it is impractical to move the apparatus.

ANNUAL PRODUCTION OF COAL FROM MINES IN THE PROVINCE OF ALBERTA

The following table is taken from a report prepared by the Dominion Bureau of Statistics and published in "Coal Statistics for Canada" for the year 1950:

Calendar Year	Short Tons	Value
1886	43,220	$ 81,112
1887	74,152	157,577
1888	115,124	183,354
1889	97,364	179,640
1890	128,753	198,298
1891	174,131	437,243
1892	178,970	460,605
1893	250,070	586,260
1894	184,940	473,827
1895	169,885	382,526
1896	209,162	581,832
1897	242,163	630,408
1898	315,088	787,720
1899	309,600	774,000
1900	311,450	778,625
1901	340,275	850,687
1902	402,819	960,605
1903	495,893	1,117,541
1904	661,732	1,404,524
1905	931,917	1,993,915
1906	1,246,360	2,614,762
1907	1,591,579	3,836,286
1908	1,685,661	4,127,311
1909	1,994,741	4,838,109
1910	2,894,469	7,065,736
1911	1,511,036	3,979,264
1912	3,240,577	8,113,525
1913	4,014,755	10,418,941
1914	3,683,015	9,350,392
1915	3,360,818	8,283,079
1916	4,559,054	11,386,577
1917	4,736,368	14,153,685
1918	5,972,816	20,537,287
1919	4,964,535	18,294,495
1920	6,833,500	29,849,608
1921	5,909,217	27,246,514
1922	5,990,911	24,351,913
1923	6,854,397	28,018,303
1924	5,189,729	18,884,318
1925	5,869,031	20,021,484
1926	6,503,705	20,886,103
1927	6,934,162	21,982,058
1928	7,336,330	23,532,414
1929	7,150,693	22,928,182
1930	5,755,528	18,063,225
1931	4,564,015	13,342,675
1932	4,870,648	13,526,309
1933	4,718,788	12,307,258
1934	4,753,810	12,556,099
1935	5,462,894	14,094,795
1936	5,696,960	14,659,705
1937	5,562,839	14,563,911
1938	5,251,233	13,698,470
1939	5,519,208	14,415,281
1940	6,203,839	16,377,959
1941	6,969,962	19,382,471
1942	7,754,053	22,624,410
1943	7,676,726	24,030,686
1944	7,428,708	26,814,957
1945	7,800,151	27,751,377
1946	8,826,311	33,441,930
1947	8,070,430	36,439,095
1948	8,123,255	42,217,449
1949	8,616,855	44,644,153
1950	8,116,220	41,687,211
Total	253,386,600	854,360,067

NOTE: Production quantities and values prior to 1919 refer to sales and colliery consumption. From 1919 to 1950 the mine output figures are given.

ESTIMATED ALBERTA COAL RESERVES

As at February, 1945

Name of Area	Total Area sq. mi.	Area underlain by Coal sq. mi.	Thickness of coal feet	Tons per acre foot	Tonnage millions of tons	Totals millions of tons
KOOTENAY FORMATION						
Smoky River	1,490	55	50	1,860	3,300	
Brule	715	36	23	1,860	1,000	
Mountain Park	690	108	40	1,875	5,200	
Nordegg	835	46	27	1,840	1,500	
Clearwater	645	18	25	1,860	500	
Panther	410	11	25	1,860	300	
Cascade	870	100	32	1,880	3,900	
Highwood	745	90	60	1,860	6,400	
Oldman	515	72	30	1,800	2,500	
Crowsnest	840	140	30	1,900	5,100	29,700
BELLY RIVER (including Edmonton)						
Halcourt	970	72	3	1,800	300	
Prairie Creek	565	25	15	1,820	400	
Coalspur	1,125	100	30	1,900	3,600	
Saunders	745	72	20	1,840	1,700	
Morley	1,480	80	10	1,800	900	
Pekisko	945	75	15	1,820	1,300	
Pincher	955	36	7	1,860	300	
Sexsmith	1,570	2	5	1,800	10	
Valhalla	1,765	5	5	1,800	30	
Red Deer	1,625	20	20	1,820	500	
Westlock	1,705	5	6	1,800	40	9,080
BELLY RIVER						
Magrath	1,550	72	6	1,870	500	
Lethbridge	575	150	4	1,860	700	
Milk River	2,735	80	6	1,850	600	
Pakowki	2,590	41	6	1,800	300	
Taber	2,770	80	3	1,860	300	
Redcliff	2,015	1	4	1,780	5	
Brooks	2,270	30	4	1,780	100	
Steveville	2,015	3	3	1,780	10	
Empress	2,015	1	3	1,780	3	
Wainwright	1,080	2	5	1,780	10	
Pakan	3,025	2	5	1,780	10	
Rochester	1,150	1	6	1,800	7	
Slave	2,375	2	4	1,800	9	
High Prairie	3,020	2	4	1,800	9	2,563
EDMONTON FORMATION						
Pembina	2,630	50	25	1,870	1,500	
Edmonton	2,270	50	12	1,790	700	
Tofield	900	20	15	1,760	300	
Camrose	865	10	10	1,760	100	
Castor	2,990	20	15	1,770	300	
Ardley	720	20	10	1,820	200	
Big Valley	540	7	6	1,860	50	
Carbon	1,140	25	10	1,850	300	
Sheerness	1,765	20	10	1,800	200	
Drumheller	430	75	15	1,820	1,300	
Gleichen	2,125	10	5	1,780	60	
Champion	1,620	10	5	1,850	60	
Wetaskiwin	1,730	10	6	1,780	70	
Whitecourt	1,440	10	6	1,850	70	
Mountain House	940	2	4	1,800	9	5,219
Grand Total	72,435	1,974	...	...	...	46,562

Extract of Pages D-3 and D-4 of the Alberta Submission to the Royal Commission on the Coal Industry of Canada.

ANNUAL CONSUMPTION OF COAL IN CANADA 1902 - 1950

The following revised table is taken from the report issued by the Dominion Bureau of Statistics for the year 1950:

Year	Canadian*		Imported coal "entered for consumption"				Total	Per Capita
			From U.S.A.	From Gr. Britain	Total """			
	Short Tons	%	Short Tons	Short Tons	Short Tons	%	Short Tons	
1902	5,376,413	53.1	4,656,286	101,726	4,734,559	46.9	10,110,972	1.840
1903	6,005,735	47.3	6,520,931	184,593	6,678,450	52.7	12,684,185	2.245
1904	6,697,183	47.9	7,238,869	85,687	7,297,482	52.1	13,994,665	2.402
1905	7,032,661	49.4	7,233,738	68,500	7,215,446	50.6	14,249,107	2.374
1906	7,927,560	50.5	7,787,338	67,014	7,758,325	49.5	15,685,885	2.573
1907	8,617,352	45.0	10,588,697	54,325	10,549,503	55.0	19,166,855	2.990
1908	8,156,478	47.3	10,203,355	97,514	10,195,424	52.7	19,351,902	2.921
1909	8,913,376	47.9	9,805,253	67,671	9,711,826	52.1	18,625,202	2.739
1910	10,532,103	50.2	10,545,451	51,451	10,437,123	49.8	20,970,226	3.001
1911	9,822,749	40.5	14,510,129	48,963	14,424,949	59.5	24,247,698	3.364
1912	12,385,696	46.0	14,557,124	38,668	14,549,104	54.0	26,934,800	3.645
1913	13,450,158	42.6	18,145,769	37,825	18,132,387	47.4	31,582,545	4.138
1914	12,214,403	45.5	14,687,853	33,101	14,637,920	54.5	26,852,323	3.408
1915	11,500,480	48.1	12,450,796	15,098	12,406,212	51.9	23,906,692	2.995
1916	12,348,036	41.3	17,576,202	4,401	17,517,820	58.7	29,865,856	3.733
1917	12,313,603	37.2	20,848,009	9,451	20,810,132	62.8	33,123,735	4.110
1918	13,160,731	37.8	21,674,826	3,761	21,611,101	62.2	34,771,832	4.268
1919	11,611,168	40.3	17,292,913	344	17,236,269	59.7	28,847,437	3.471
1920	14,025,566	42.9	18,752,981	...	18,868,741	57.1	32,694,307	3.821
1921	12,715,734	41.1	18,300,081	1,591	18,258,387	58.9	30,974,121	3.525
1922	13,044,352	50.2	12,255,555	765,980	12,962,189	49.8	26,006,541	2.916
1923	15,070,962	41.8	20,417,239	572,570	20,967,971	58.2	36,038,933	4.000
1924	12,529,358	42.8	16,405,344	317,112	16,714,143	57.2	29,243,501	3.198
1925	12,125,290	42.6	15,744,957	604,117	16,331,971	57.4	28,457,261	3.062
1926	15,086,296	47.7	16,204,405	287,299	16,565,555	52.3	31,651,851	3.349
1927	15,944,983	46.7	17,266,434	907,220	18,177,303	53.3	34,122,286	3.541
1928	16,487,807	50.0	15,830,688	682,755	16,515,582	50.0	33,003,389	3.356
1929	16,387,461	48.0	16,780,452	843,502	17,724,132	52.0	34,111,593	3.401
1930	14,052,671	43.3	16,971,933	1,144,861	18,412,039	56.7	32,464,710	3.180

1931	11,682,779	47.7	11,793,798	987,442	12,828,327	52.3	24,511,106	2.362
1932	11,212,701	49.0	9,889,866	1,727,716	11,654,492	51.0	22,867,193	2.177
1933	11,456,273	51.5	8,865,935	1,942,875	10,808,962	48.5	22,265,235	2.085
1934	13,236,406	51.1	10,580,710	1,981,116	12,651,168	48.9	25,887,574	2.392
1935	13,306,303	53.1	9,618,518	1,822,500	11,735,835	46.9	25,042,138	2.290
1936	14,508,642	53.3	10,801,643	1,498,656	12,719,515	46.7	27,228,167	2.469
1937	15,172,729	51.5	12,574,574	1,211,052	14,268,585	48.5	29,441,314	2.648
1938	13,800,094	53.5	10,754,747	1,257,887	12,012,634	46.5	25,812,728	2.281
1939	14,902,915	50.7	12,838,347	1,099,419	14,479,668	49.3	29,382,583	2.597
1940	16,666,234	49.5	15,509,778	1,514,458	17,036,090	50.5	33,702,324	2.960
1941	17,227,151	46.2	19,332,479	693,902	20,026,082	53.8	37,253,233	3.238
1942	17,725,761	42.4	23,735,334	388,010	24,122,916	57.6	41,848,677	3.591
1943	16,321,006	37.1	27,303,778	391,475	27,895,098	62.9	44,016,104	3.727
1944	15,660,808	35.7	27,948,008	218,511	28,166,201	64.3	43,827,009	3.659
1945	15,227,819	38.3	24,505,241	28,388	24,521,528	61.7	39,749,347	3.279
1946	16,502,508	39.0	25,639,541	101,580	25,740,704	61.0	42,243,212	3.434
1947	14,673,967	34.0	28,410,149	52,777	28,462,242	66.0	43,136,209	3.428
1948	16,928,028	36.0	30,295,841	162,550	30,454,917	64.0	47,382,945	3.678
1949	18,104,626	45.3	21,501,583	331,457	21,833,057	54.7	39,937,683	2.947
1950	18,224,944	40.6	26,224,893	423,874	26,649,049	59.4	44,873,993	3.241

* The sum of Canadian coal mine sales, colliery consumption, coal supplied to employees and coal used in making coke, etc., less the tonnage of coal exported.

""" Includes small tonnages from Countries other than Great Britain and the United States. Deductions have been made to take account of foreign coal re-exported from Canada, and bituminous coal ex-warehoused for ship's store.

Imports of coal and coke briquettes not included.

The following table shows the quantity of coke imported into Canada during the years 1949, 1950 and 1951 through ports in the Provinces, compiled from information from the Dominion Bureau of Statistics:

Province	1949		1950		1951	
	Made from Coal	Made from Petroleum	Made from Coal	Made from Petroleum	Made from Coal	Made from Petroleum
Newfoundland	...	...	150	...	...	...
Nova Scotia	...	...	...	...	...	...
Quebec	4,346	1,484	21,236	...	7,221	...
Ontario	421,773	278,345	374,954	259,803	575,807	362,419
Manitoba	14,594	...	10,752	...	11,727	...
Saskatchewan	1,178	...	1,404	...	1,194	...
British Columbia	2,474	...	3,380	217	2,494	69
Alberta	212	...	...	...	...	...
Total	444,577	279,829	411,876	260,020	598,445	362,488

Imports of Coal for each year since 1919, through ports in the Province of Ontario, Manitoba, Saskatchewan, Alberta, British Columbia and Yukon.
BITUMINOUS COAL

Year	Central Ontario	Fort Arthur	Fort Frances	Fort William	Total Ontario	Manitoba	Saskatchewan	Alberta	B.C. & Yukon	Total Canada
1919	7,641,682	483,991	59,253	1,063,793	9,248,719	62,746	1,406	1,131	6,700	12,010,490
1920	10,261,237	571,879	111,957	1,391,903	12,336,709	43,547	535	607	13,128	15,902,632
1921	8,605,872	659,763	127,956	1,316,155	10,709,746	76,833	2,127	1,820	17,081	13,536,250
1922	7,424,171	445,019	68,082	1,517,250	9,454,522	74,848	1,484	1,147	13,966	11,563,467
1923	11,621,859	619,037	95,439	1,731,667	14,068,002	112,134	1,607	1,110	17,919	17,517,108
1924	8,763,676	403,388	70,259	1,500,525	10,737,848	143,609	2,422	1,209	25,049	12,619,082
1925	9,100,462	286,984	81,173	497,264	9,884,710	147,758	1,732	1,175	40,286	13,015,323
1926	10,531,095	199,908	83,182	965,105	11,696,108	149,374	1,887	1,515	32,992	13,802,242
1927	11,572,678	221,694	90,864	1,273,691	13,158,927	142,860	2,141	1,324	22,648	15,178,640
1928	10,539,408	194,718	103,594	1,481,228	12,318,948	97,002	2,536	1,360	18,682	13,966,183
1929	11,232,027	143,889	100,141	1,591,656	13,067,713	38,801	2,477	1,327	18,526	14,585,275
1930	10,421,748	165,499	70,403	1,297,939	11,955,589	24,898	1,816	1,351	8,886	13,345,308
1931	8,553,736	86,810	65,738	609,279	9,315,563	7,041	1,535	912	2,308	10,347,280
1932	6,867,307	62,019	48,195	691,831	7,670,072	12,298	1,459	830	3,582	8,532,318
1933	7,038,386	74,934	30,108	482,206	7,625,634	13,213	1,327	998	26,077	8,427,656
1934	8,472,143	126,671	37,085	602,510	9,238,409	12,103	1,235	1,302	2,301	10,268,945
1935	8,032,739	6,033	53,145	591,810	8,683,727	9,918	952	1,136	3,722a	9,549,457b
1936	8,448,795	156,229	67,784	688,950	9,361,758	14,101	847	1,205	3,524d	10,200,253e
1937	9,946,567	128,595	69,598	820,160	10,964,920	12,079	743	1,293	2,540g	12,241,270h
1938	7,981,712	113,746	56,806	698,371	8,850,635	9,061	783	1,116	2,701k	9,567,334l
1939	8,035,174	77,532	53,772	528,887	8,695,365	15,035	862	990	1,808r	9,903,613o
1940	11,312,806	28,363	30,138	503,782	11,875,089	7,066	692	795	2,591	13,578,705x
1941	13,910,140	29,608	26,523	765,376	14,731,647	10,021	671	1,062	1,646	17,867,068
1942	14,397,298	292,783	51,942	1,212,815	15,954,838	21,568	773	789	1,573	20,807,005
1943	15,524,762	152,955	262,893	2,425,150	18,365,760	90,293	732	1,002	1,611	24,393,798
1944	15,654,562	271,617	364,674	2,195,070	18,485,923	16,255	556	935	1,236	24,513,527
1945	14,236,472	262,266	290,850	1,320,728	16,110,322	20,397	642	1,221	1,682	21,176,811xx
1946	14,272,178	331,674	322,295	1,946,218	16,872,365	16,265	686	1,038	1,790	22,000,398xxx
1947	16,827,356	340,450	396,647	1,972,434	19,536,887	26,146	560	806	1,866	25,841,440xxxx
1948	17,774,268	3,142,251*	.....	.....	20,916,519	78,047	485	.....	29,686	25,907,103xxxxx
1949	11,848,120	1,385,640*	.....	.....	13,233,760	45,609	...	124	6,114	15,799,509
1950	17,224,711	1,482,394*	.....	.....	18,707,105	32,891	250	.....	3,230	22,593,168
1951	16,682,920	1,868,498*	.....	.....	18,551,418	28,847	459	.....	692	22,459,357

X Consists of 13,382,389 tons from the United States and 196,316 tons from Great Britain.
XX Consists of 21,176,805 tons from the United States and 6 tons from Great Britain.
XXX Consists of 22,000,314 tons imported from the United States and 84 tons from Great Britain.
XXXX Consists of 25,839,917 tons imported from the United States, 1,087 tons imported from Great Britain, 431 tons from Belgium and 5 tons from Alaska.
XXXXX Includes briquettes and lignite coal. *Includes Fort Frances and Fort William.

ANTHRACITE COAL

1919	2,977,913	119,234	559	346,442	3,444,148	12,906	...	66	136	4,972,283
1920	2,943,134	69,206	2,648	226,476	3,241,464	17,509	206	517	75	4,912,964
1921	2,809,189	62,782	138	198,108	3,070,217	33,473	254	66	251	4,567,370
1922	1,586,924	21,507	12	36,018	1,644,461	14,715	231	...	61	2,693,957
1923	3,061,779	28,229	429	54,329	3,144,766	55,856	2,291	...	174	5,167,881
1924	2,599,568	4,775	237	84,513	2,689,093	34,222	1,720	...	687	4,183,594
1925	2,203,281	37	170	50,731	2,254,049	34,396	702	30	246	3,798,744
1926	2,458,674	.....	56	60,810	2,519,494	17,990	464	...	5,202	4,242,932
1927	2,123,515	.....	51	79,283	2,202,849	15,885	484	...	3,812	4,063,619
1928	2,179,022	.....	42	57,494	2,236,558	10,130	579	...	2,241	3,737,333
1929	2,246,063	352	303	52,369	2,299,087	9,180	365	...	597	4,019,917
1930	2,080,457	.....	224	45,241	2,125,922	8,323	367	...	1,123	4,256,090
1931	1,615,643	.....	...	18,302	1,633,945	3,695	...	...	33	3,178,141
1932	1,250,755	.....	3	12,677	1,263,435	3,800	...	3	702	3,138,157
1933	1,129,041	.....	8	8,742	1,137,791	5,669	57	75	3,657	3,035,613
1934	1,374,881	.....	3,030	7,934	1,385,845	6,086	...	...	282	3,537,309
1935	1,370,119	.....	19	9,455	1,379,593	5,852	40	...	1,600	3,451,318e
1936	1,436,613	.....	135	16,350	1,453,098	5,884	58	...	1,151	3,530,040f
1937	1,608,653	.....	8	21,052	1,629,713	5,639	66	34	61	3,572,268j
1938	1,697,601	.....	69	16,050	1,713,720	4,674	39	...	280	3,714,001m
1939	2,043,142	.....	297	18,459	2,061,898	4,696	...	33	...	3,977,805p
1940	2,033,585	.....	...	10,571	2,044,156	4,466	34	...	236	3,964,862q
1941	2,343,406	.....	...	...	2,362,433	10,021	...	16	30	3,940,859
1942	2,807,479	.....	...	...	2,816,165	7,093	...	23	...	4,802,023
1943	2,502,024	.....	...	...	2,513,199	16,336	...	7	110	4,458,519
1944	2,528,190	.....	...	...	2,535,976	9,723	...	4	62	4,413,227
1945	2,008,208	.....	42	2,932	2,010,182	6,198	1	1	6,200	3,411,424x
1946	2,776,497	1,977	513	13,394	2,792,381	11,718	...	...	...	4,639,347xx
1947	2,912,629	1,831	126	9,825	2,924,411	10,797	...	11	51	4,464,007xxx
1948	3,287,858	56,708*	...	...	3,344,566	3,197	...	...	2,116	5,142,529xxxx
1949	2,414,784	53,753*	...	...	2,468,537	1,935	302	...	....	4,080,147
1950	2,720,328	28,348*	...	...	2,748,676	2,500	270	...	...	4,467,111
1951	2,435,439	27,619*	...	...	2,463,058	90	...	...	5	3,910,260

x Consists of 3,383,042 tons imported from the United States and 28,382 from Great Britain.
xx Consists of 4,537,852 tons from the United States and 101,496 from Great Britain.
xxx Consists of 4,412,285 tons imported from the United States and 51,722 from Great Britain.
xxxx Consists of 4,966,775 tons imported from the United States and 175,754 from Great Britain.
* Includes Fort Frances and Fort William

(a) Includes imports into the Yukon Territory of 10 tons in July and 10 in October.
(b) Consists of 9,168,428 tons imported from the United States, 380,645 tons from Great Britain, 43 tons from Alaska, 285 tons imported from Norway, 55 tons from Esthonia and 1 ton from Poland.
(c) Consists of 1,670,085 tons from United States, 1454,521 tons from Great Britain, 205,045 tons from Germany, 67,220 tons from Belgium and 54,447 tons from French Indo-China.
(d) Includes imports into the Yukon Territory of 4 tons in April, 3 tons in May, 6 in June, 45 in July, 2 in October.
(e) Consists of 10,042,127 tons imported from the United States, 149,905 tons from Great Britain, 9,421 tons from Germany, 361 tons from Norway, 124 tons from Denmark, 45 tons from Sweden, 35 tons from the Netherlands, 134 tons from Esthonia and 286 tons from Newfoundland.
(f) Consists of 1,685,848 tons imported from the United States, 1,331,279 tons from Great Britain, 359,994 tons from Germany, 33,543 tons from Belgium, 122,572 tons from French Indo-China, 16,231 tons from the Netherlands and 1,120 tons from China.
(g) Includes imports into the Yukon Territory of 4 tons in March, 6 tons in June, 45 tons in July and 2 tons in October.
(h) Consists of 12,333,378 tons imported from the United States, 56,073 tons from Great Britain, 54,061 tons from Germany, 113 tons from Norway, and 200 tons from Esthonia.
(j) Consists of 2,003,317 tons imported from United States, 1,134,855 tons from Great Britain, 258,257 tons from Germany, 8,131 tons from Belgium, 154,495 tons from Russia and 78 tons from Morocco.
(k) Includes imports into the Yukon Territory of 8 tons in March, 10 tons in July, and 8 tons in October.
(l) Consists of 9,644,020 tons imported from the United States, 1,199,131 tons from Great Britain, 407,031 from Germany, and 417 tons from Japan.
(m) Consists of 1,973,610 tons from the United States, 1,199,131 tons from Great Britain, 407,031 from Germany, 34,182 tons from Belgium, 14,952 tons from Russia, 19,645 tons from Morocco, 37,594 tons from the Netherlands and 30,302 tons from French Indo-China.
(n) Includes imports into the Yukon Territory of 15 tons in July and 8 tons in December.
(o) Consists of 9,836,110 tons imported from the United States, 67,483 tons from Great Britain and 20 tons from Norway.
(p) Consists of 2,605,765 tons from the United States, 1,034,901 tons from Great Britain, 293,602 tons from Germany and 43,537 tons from French Indo-China.
(q) Consists of 2,643,588 tons from the United States and 1,321,274 tons from Great Britain.

Imports of Coal into Ontario, Manitoba, Saskatchewan, Alberta, British Columbia and Canada, by months during 1951:

BITUMINOUS COAL

Month	Central Ontario	Head of Lakes	Total Ontario	Manitoba	Saskatchewan	Alberta	British Columbia	Total Canada
January	604,970	18,210	623,180	5,110	22	...	183	859,460
February	354,396	22,929	377,325	3,526	16	...	...	591,864
March	537,725	42,998	580,723	1,416	...	...	...	861,737
April	1,815,609	141,018	1,956,627	1,857	18	...	...	2,194,427
May	2,150,995	165,059	2,316,054	767	175	...	52	2,729,083
June	2,005,226	220,734	2,225,960	496	31	...	85	2,650,385
July	1,718,882	135,537	1,854,419	1,863	61	...	...	2,182,345
August	2,134,255	236,004	2,370,259	2,371	43	...	60	2,806,374
September	1,693,948	170,169	1,864,117	3,060	93	...	51	2,271,291
October	1,657,455	288,202	1,945,657	3,021	...	...	159	2,528,345
November	1,454,680	335,092	1,769,772	2,240	...	...	102	2,119,028
December	574,779	92,546	667,325	3,120	...	...	...	865,020
Total	16,682,920	1,868,498	18,551,418	28,847	459	...	692	22,459,357

ANTHRACITE COAL

Month	Central Ontario	Head of Lakes	Total Ontario	Manitoba	Saskatchewan	Alberta	British Columbia	Total Canada
January	220,749	136	220,885	...	...	...	...	332,472
February	202,880	709	203,589	...	...	...	...	301,056
March	105,531	823	106,354	...	...	...	...	170,437
April	116,037	322	116,359	90	...	...	...	160,642
May	202,024	2,831	204,855	...	...	...	...	307,735
June	201,940	...	201,940	...	...	...	...	322,947
July	186,417	2,734	189,151	...	...	...	...	323,754
August	197,466	58	197,524	...	...	...	2	349,712
September	193,546	17,038	210,584	...	...	...	...	386,786
October	267,310	...	267,310	...	...	...	3	460,606
November	261,826	2,988	264,814	...	...	...	...	433,763
December	279,693	...	279,693	...	...	...	...	360,350
Total	2,435,439	27,619	2,463,058	90	...	...	5	3,910,260

GRAND TOTAL IMPORTATIONS

Bituminous	16,682,920	1,868,498	18,551,418	28,847	459	...	692	22,459,357
Anthracite	2,435,439	27,619	2,463,058	90	...	...	5	3,910,260
Total	19,118,359	1,896,117	21,014,476	28,937	459	...	697	26,369,617

MINERAL PRODUCTION IN ALBERTA DURING 1949 and 1950

Prepared in the Mining, Metallurgical and Chemical Branch, Ottawa, Canada

	1949		1950	
	Quantity	Value	Quantity	Value
METALLICS:				
Gold, fine ounces	115	4,140	152	5,784
Silver, fine ounces	11	8	14	11
NON-METALLICS:				
Coal, short tons	8,616,855	44,644,153	8,118,220	41,687,211
Natural gas, M. cu. ft.	51,179,779	2,558,989	58,603,976	2,930,199
Quartz, tons	700	10,500	300	2,700
Petroleum, crude barrels	20,087,418	58,999,936	27,548,169	82,216,492
Salt, tons	28,359	547,304	25,606	539,287
CLAY PRODUCTS AND OTHER STRUCTURAL MATERIALS:				
Cement, barrels	1,659,503	3,456,141	1,589,713	3,364,613
Clay products	...	1,603,199	...	1,950,509
Lime:				
Quicklime, tons	26,064	283,357	32,551	423,186
Hydrated, tons	1,007	12,084	1,013	12,156
Sand and gravel, tons	2,448,814	1,553,589	3,866,662	2,572,795
Stone, tons	13,632	55,025	12,894	54,197
Total	...	113,728,425	...	155,758,940

PARTICULARS WITH REFERENCE TO THE COAL MINING INDUSTRY IN THE PROVINCE OF ALBERTA DURING THE YEAR ENDING DECEMBER 31, 1951.

SUMMARY OF STATISTICS

Number of short tons of coal produced	7,661,276
Number of short tons of briquettes and frabricoal made	345,768
Number of short tons of coke produced	3,959
Number of short tons of shale, clay and limestone produced	553,275
Number of short tons of bentonite produced	102
Number of quarries in operation during the year	12
Number of coal mines in operation during the year	179
Number of mines opened during the year	5
Number of mines re-opened during the year	54
Number of mines closed during the year	63
Number of mines abandoned during the year	26
Number of mines in operation at December 31st, 1951	151
57 mines or 31.84% of the total operating produced .30% of the output	
43 mines or 24.03% of the total operating produced 1.34% of the output	
15 mines or 8.38% of the total operating produced 1.46% of the output	
29 mines or 16.20% of the total operating produced 9.02% of the output	
9 mines or 5.03% of the total operating produced 8.15% of the output	
10 mines or 5.59% of the total operating produced 15.66% of the output	
5 mines or 2.79% of the total operating produced 11.27% of the output	
6 mines or 3.35% of the total operating produced 19.75% of the output	
5 mines or 2.79% of the total operating produced 33.05% of the output	
Average number of persons employed below ground	4,457
Average number of persons employed above ground	1,801
Average number of persons employed at strip mining	1,081
Number of separate accidents causing loss of life	9
Number of deaths caused by accidents above ground	3
Number of deaths caused by accidents below ground	6
Number of serious accidents above ground	23
Number of serious accidents below ground	62
Number of slight accidents above ground	18
Number of slight accidents below ground	35
Total purchased electric power (Kilowatt hours)	50,956,876
Number of prosecutions instituted	27
Number of Provisional Overmans' Certificates issued during 1951	65
Number of Provisional Electricians' Certificates issued during 1951	7
Number of Provisional Foremans' Certificates issued during 1951	26
Number of Provisional Blasters' Certificates (Strip Mine) issued during 1951	4
Number of Provisional Blasters' Certificates (Quarries) issued during 1951	13
Number of Provisional Miners' Certificates issued during 1951	54
Number of Miners' Permits issued during 1951	516
Number of Miners' Certificates issued during 1951	228
Number of Miners' Duplicate Certificates issued during 1951	37
Number of First Class Certificates issued during 1951	3
Number of Second Class Certificates issued during 1951	5
Number of Third Class Certificates issued during 1951	21
Number of Mine Surveyors' Certificates issued during 1951	5
Number of First Class Mine Electricians' Certificates issued during 1951	2
Number of Second Class Mine Electricians' Certificates issued during 1951	5
Number of Strip Mine Managers' Certificates issued during 1951	6
Number of Strip Mine Foremans' Certificates issued during 1951	39
Number of Strip Mine Blasters' Certificates issued during 1951	6
Number of First Class Certificates issued up to Dec. 31, 1951	304
Number of Second Class Certificates issued up to Dec. 31, 1951	611
Number of Third Class Certificates issued up to Dec. 31, 1951	1,807
Number of Mine Surveyors' Certificates issued up to Dec. 31, 1951	231
Number of First Class Mine Electricians' Certificates issued up to Dec. 31/51	152
Number of Second Class Mine Electricians' Certificates issued up to Dec. 31/51	28
Number of Strip Mine Managers' Certificates issued up to Dec. 31, 1951	136
Number of Strip Mine Foremans' Certificates issued up to Dec. 31, 1951	169
Number of Strip Mine Blasters' Certificates issued up to Dec. 31, 1951	44
Number of Miners' Certificates issued up to Dec. 31, 1951	20,066

PARTICULARS OF WORK DONE IN QUARRIES IN THE PROVINCE DURING 1951

Number of short tons of shale, clay and limestone produced			553,275
Number of short tons of bentonite produced			102
Number of short tons of shale, clay and limestone imported from Sask.			1,953
Number of short tons of shale used making bricks			82,370
Number of short tons of shale used making hollow tile			34,084
Number of short tons of shale used making rock wool insulation			3,054
Number of short tons of limestone used making cement			364,720
Number of short tons of limestone used making lime			35,000
Number of short tons of limestone used making rock dust			34,000
Number of short tons of limestone used making calcium products			2,000
Total number of shifts worked			149,923
Total number of men employed			514
Number of pounds of explosives used			108,135
Total number of shots fired			61,892
Total number of miss-shots			84
Total number of bricks made			30,483,173
Total number of bricks put to stock			830,050
Total number of bricks lifted from stock			926,351
Bricks sold for use in:	Alberta	16,277,505	
	Saskatchewan	6,130,869	
	British Columbia	4,371,191	
	Manitoba	3,021,559	
	Ontario	159,550	
	Elsewhere	23,000	
	Total	30,579,474	
Number of tons of hollow tile made			34,084
Number of tons of hollow tile put to stock			156
Number of tons of hollow tile lifted from stock			1,462
Number of tons of hollow tile sold			35,391

In the following tables the short ton of 2,000 lbs. is used in all cases.

Year	Output in tons for N.W.T. (Alta. & Sask.)	Output in tons for Alberta.
1901	346,649	.....
1902	510,674	.....
1903	622,939	.....
1904	782,931	.....
1905	.....	811,228
1906	.....	1,385,000
1907	.....	1,834,745
1908	.....	1,845,000
1909	.....	2,174,329
1910	.....	3,036,757
1911	.....	1,694,564
1912	.....	3,446,349
1913	.....	4,306,346
1914	.....	3,821,739
1915	.....	3,434,891
1916	.....	4,648,604
1917	.....	4,863,414
1918	.....	6,148,620
1919	.....	5,022,412
1920	.....	6,908,923
1921	.....	5,937,195
1922	.....	5,976,432
1923	.....	6,866,923
1924	.....	5,203,713
1925	.....	5,883,394
1926	.....	6,508,908
1927	.....	6,936,780
1928	.....	7,334,179
1929	.....	7,147,250
1930	.....	5,755,911
1931	.....	4,563,309
1932	.....	4,867,984
1933	.....	4,714,784
1934	.....	4,748,848
1935	.....	5,462,973
1936	.....	5,696,375
1937	.....	5,551,682
1938	.....	5,230,015
1939	.....	5,518,105
1940	.....	6,205,088
1941	.....	6,970,064
1942	.....	7,754,279
1943	.....	7,677,982
1944	.....	7,427,433
1945	.....	7,801,248
1946	.....	8,824,455
1947	.....	8,074,596
1948	.....	8,111,013
1949	.....	8,616,983
1950	.....	8,118,206
1951	.....	7,661,276

CLASSIFICATION OF OUTPUT DURING THE YEARS 1901 to 1951 INCLUSIVE

Year	Domestic	Domestic and Bituminous	Sub-Bituminous	Bituminous	Anthracite	Coal used in coke Production	Briquettes	Coke
1901	.....	331,907	.....	.....	14,742	.....	.....	.....
1902	.....	494,087	.....	.....	16,587	.....	.....	.....
1903	.....	617,754	.....	.....	5,185	.....	.....	.....
1904	.....	759,568	.....	.....	23,363	.....	.....	.....
1905	.....	972,686	.....	.....	43,653	71,292	.....	46,640
1906	602,780	.....	.....	546,623	235,597	103,930	.....	69,844
1907	639,335	.....	.....	939,295	256,115	112,887	49,585	73,782
1908	584,334	.....	.....	1,011,571	249,095	128,397	36,261	75,657
1909	763,673	.....	.....	1,197,399	213,257	148,104	89,785	87,812
1910	878,011	.....	.....	1,896,961	261,785	196,249	108,996	121,578
1911	964,700	.....	.....	649,745	80,119	61,591	48,200	35,984
1912	1,341,389	.....	.....	1,926,371	178,589	170,818	90,000	105,684
1913	1,763,225	.....	.....	2,374,401	168,720	104,012	130,861	65,167
1914	1,697,401	.....	.....	1,953,367	170,971	44,249	109,082	29,058
1915	1,682,922	.....	.....	1,626,237	125,732	38,878	83,180	23,826
1916	2,172,801	.....	.....	2,335,259	140,544	67,105	107,959	41,950
1917	2,537,829	.....	.....	2,206,868	118,717	51,905	93,818	31,630
1918	3,035,061	.....	.....	2,982,334	131,225	53,462	100,470	32,858
1919	2,611,009	.....	.....	2,325,787	85,616	.....	70,033	.....
1920	3,359,309	.....	.....	3,419,021	130,594	.....	101,693	.....
1921	2,943,141	.....	.....	2,897,380	96,674	.....	62,466	.....
1922	3,086,669	.....	635,073	2,214,273	40,417	.....	33,663	.....
1923	3,161,741	.....	463,461	3,241,614	107	.....	39,638	.....
1924	3,096,660	.....	591,946	1,515,107	.....	.....	.....	.....
1925	3,156,359	.....	581,835	2,145,200	.....	.....	791	.....
1926	3,160,029	.....	490,371	2,858,508	.....	.....	11,381	.....
1927	3,357,171	.....	595,190	2,984,419	.....	287	20,649	173
1928	3,378,200	.....	740,498	3,215,481	.....	.....	24,768	.....
1929	3,385,749	.....	668,108	3,093,393	.....	.....	28,167	.....
1930	2,874,090	.....	603,331	2,278,490	.....	.....	24,111	.....
1931	2,245,563	.....	471,389	1,846,357	.....	.....	15,102	.....
1932	2,574,785	.....	559,479	1,733,720	.....	4,591	13,582	2,183
1933	2,434,047	.....	554,141	1,726,596	.....	75,275	44,935	49,279
1934	2,295,566	.....	537,542	1,915,740	.....	91,745	15,906	59,703
1935	2,647,912	.....	566,436	2,248,625	.....	98,233	18,812	63,428

1936.....	2,841,231	.....	566,486	2,288,658	.....	97,353	21,015	65,349
1937.....	2,631,150	.....	506,529	2,414,003	.....	99,537	27,044	65,967
1938.....	2,453,263	.....	488,912	2,287,850	.....	103,498	39,239	68,692
1939.....	2,449,199	.....	512,105	2,556,801	.....	103,191	48,510	68,913
1940.....	2,537,205	.....	598,686	3,069,197	.....	105,926	66,127	70,753
1941.....	2,713,254	.....	585,453	3,671,357	.....	105,390	126,188	70,354
1942.....	3,213,113	.....	733,547	3,807,619	.....	107,410	197,905	71,572
1943.....	3,416,037	.....	791,952	3,469,993	.....	101,132	222,106	67,348
1944.....	3,146,801	.....	729,427	3,551,205	.....	101,633	253,592	67,821
1945.....	.....	.....	3,200,485	4,600,763	.....	64,280	250,274	43,180
1946.....	.....	.....	3,434,859	5,389,596	.....	64,878	275,646	43,206
1947.....	.....	.....	3,237,220	4,837,376	.....	81,128	282,898	52,627
1948.....	.....	.....	3,190,217	4,920,796	.....	78,795	321,574	45,718
1949.....	.....	.....	3,121,656	5,495,327	.....	91,361	460,643	54,922
1950.....	.....	.....	3,325,186	4,793,020	.....	23,079	409,855	16,637
1951.....	.....	.....	3,001,987	4,659,289	.....	6,957	345,768*	3,959

1901 to 1905 includes outputs from Alberta and Saskatchewan. Previous to 1922 sub-bituminous coal was included in bituminous coal.

During the year 1909 a strike affecting all the larger mines in the Province, lasted for a period of three months.
During the year 1911 a strike affecting all the larger mines in the Province, lasted for a period of eight months.
During the year 1917 a strike affecting all the larger mines in the Province, lasted for a period of three months.
During the year 1919 a strike affecting all the larger mines in the Province, lasted for a period of three months.
During the year 1922 a strike affecting all the larger mines in the Province, lasted for a period of five months.
During the year 1924 a strike affecting all the larger mines in the Province, lasted for a period of six months and one-half.
* 1,742 tons of Fabricoal.

Total Output of Coal disposed of during 1951

Areas	Sold for Consumption in:								Total Sales	Used under Colliery Boilers	Used by Colliery Railroads	Used making Briquettes	Used making Coke	Used making Fabricoal	Put to Stock	Put to Waste	Lifted from Stock	Lifted from Waste	Total Output
	Alberta	Sask-atchewan	British Columbia	Manitoba	Ontario	Japan	United States	Sold to Railroad Compan-ies											
Bituminous	278604	153342	620793	196549	101665	44317	80104	2443326	3918700	121479	830	326120	6957	...	181808	314990	190025	21570	4659289
S.Bituminous	1148510	1168820	277740	296188	81088	...	166	...	2972512	7085	...	...	...	1980	23852	10168	13290	320	3001987
Total	1427114	1322162	898533	492737	182753	44317	80270	2443326	6891212	128564	830	326120	6957	1980	205660	325158	203315	21890	7661276
Briquettes	13681	9004	35858	46143	30689	...	233	208142	343750	...	...	...	...	...	2432	...	2156	...	344026
Coke	1611	63	205	1191	89	...	1461	...	4620	...	...	...	...	...	165	...	791	35	3959
Fabricoal	235	973	...	534	...	...	...	...	1742	...	...	...	...	...	...	...	...	...	1742

How the total Output of BITUMINOUS COAL from the Province was disposed of by areas during 1951

Areas:	Sold for Consumption in:								Total Sales	Used under Colliery Boilers	Used by Colliery Railroads	Used making Briquettes	Used making Coke	Put to Stock	Put to Waste	Lifted from Stock	Lifted from Waste	Total Output
	Alberta	Saskatchewan	British Columbia	Manitoba	Ontario	Japan	United States	Sold to Railroad Companies										
Group 1:																		
Cascade	9539	2200	8409	14121	12991	...	3880	130979	182119	22798	599	140795	...	37147	...	45611	...	337847
Nordegg	1873	...	...	...	...	...	...	...	1873	2574	...	4477	...	1010	...	...	...	9934
Group 2:																		
Crowsnest	59013	11094	151566	40878	22761	15180	75465	1714717	2090674	19187	180	14978	6957	124757	266820	130768	1534	2391251
Mtn. Park	3173	978	96879	49578	...	29137	...	395523	575268	33584	...	165870	...	498	15804	687	20036	770301
Group 3:																		
Coalspur	31059	16763	325631	56632	46884	...	98	202107	679174	35375	51	...	...	6448	32163	1302	...	751909
Halcourt	789	...	137	...	...	...	...	...	926	10	...	...	...	...	...	...	...	936
Lethbridge	159215	101774	37368	23032	9940	...	661	...	331990	2918	...	...	...	10469	203	10309	...	335271
Morley	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Pekisko	5495	...	...	...	...	...	...	...	5495	...	...	...	...	...	...	...	...	5495
Pincher	5	...	...	...	...	...	...	...	5	...	...	...	...	...	...	...	...	5
Pr. Creek	916	...	46	...	...	...	...	...	962	...	...	...	...	247	...	83	...	1126
Red Deer	71	...	...	...	...	...	...	...	71	...	...	...	...	...	...	...	...	71
Saunders	7456	20533	757	12308	9089	...	...	...	50143	5033	...	...	...	1232	...	1265	...	55143
Total	278604	153342	620793	196549	101665	44317	80104	2443326	3918700	121479	830	326120	6957	181808	314990	190025	21570	4659289

How the total Output of SUB-BITUMINOUS COAL from the Province was disposed of by areas during 1951

Areas:	Sold for Consumption in:						Total Sales	Used under Colliery Boilers	Used making Fabricoal	Put to Stock	Put to Waste	Lifted from Stock	Lifted from Waste	Total Output
	Alberta	Saskatchewan	British Columbia	Manitoba	Ontario	United States								
Group 4:														
Ardley	50124	...	...	...	...	...	50124	...	...	...	2967	...	...	53091
Big Valley	10913	1904	194	1237	90	...	14338	590	1980	240	470	50	...	17568
Brooks	23266	22440	15748	7338	6856	...	75648	...	...	...	...	...	...	75648
Carbon	46331	3284	1537	4002	93	...	55247	267	...	...	584	...	...	56098
Champion	7124	...	...	...	...	...	7124	...	...	26	14	...	...	7164
Drumheller	294570	864485	159266	195554	39952	...	1553827	4074	...	19276	437	11192	320	1566102
Edmonton	321528	11065	4122	10976	5604	...	353295	1591	...	3373	315	1804	...	356770
Gleichen	13780	146	...	...	...	...	13926	...	...	...	...	...	...	13926
Milk River	408	...	...	...	...	...	408	...	...	...	...	...	...	408
Pembina	95474	21121	27799	8081	11965	...	164440	180	...	80	205	223	...	164682
Taber	33357	30530	31545	19005	6682	...	121119	...	...	136	150	...	...	121405
Wetaskiwin	872	...	...	...	...	...	872	...	...	...	...	...	...	872
Whitecourt	820	...	...	...	...	...	820	...	...	...	...	...	...	820
Group 5:														
Camrose	40209	8332	6777	2864	2126	166	60474	...	...	455	...	...	...	60929
Castor	95650	115391	25635	30507	3051	...	270234	33	...	266	2552	...	...	273085
Pakowki	243	...	...	...	...	...	243	...	...	...	...	...	...	243
Redcliff	3493	1441	41	483	...	...	5458	...	...	...	...	...	...	5458
Rochester	193	...	...	...	...	...	193	...	...	...	...	...	...	193
Sheerness	30832	22943	...	...	...	...	53775	...	...	...	2229	...	...	56004
Slave	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Tofield	66997	65738	5076	16141	4669	...	158621	350	...	...	...	...	...	158971
Westlock	12326	...	...	...	...	...	12326	...	...	...	245	21	...	12550
Total:	1148510	1168820	277740	296188	81088	166	2972512	7085	1980	23852	10168	13290	320	3001987

How the total output of COAL from the Province was disposed of by months during 1951

Months	Sold for Consumption in:								Total Sales	Used under Colliery Boilers	Used by Colliery Railroads	Used making Briquettes	Used making Coke	Used making Fabricoal	Put to Stock	Put to Waste	Lifted from Stock	Lifted from Waste	Total Output
	Alberta	Saskatchewan	British Columbia	Manitoba	Ontario	Japan	United States	Sold to Railroad Companies											
January	177608	149779	71655	68043	32057	...	3648	223986	726776	12877	97	29008	879	...	16364	30833	8721	657	807456
February	142732	113447	57346	46449	29169	...	4977	195039	589159	10997	68	21202	938	...	17677	26814	6087	779	659989
March	117772	68389	68328	26859	16896	...	4595	186593	489432	11741	72	19904	790	...	21545	27209	14228	1211	555254
April	57159	73894	60412	24266	2854	...	3670	238295	460550	10040	74	24050	869	...	14370	26503	20728	1262	514466
May	51693	69812	52151	26237	2837	...	4659	228177	435566	9158	68	26564	1070	...	16081	24900	19451	7203	486753
June	49631	85498	48513	26900	4512	...	4223	228331	447608	9486	63	31759	671	...	12760	28013	18866	1679	509815
July	43501	55411	56619	19193	6663	...	6934	205375	393696	8823	53	28822	632	...	12195	25281	14045	5372	450085
August	63588	94772	72985	29674	12515	...	10560	231936	516030	10066	73	37305	856	...	22551	25743	10048	...	602576
September	118792	104566	88082	42857	14167	370	8523	169299	546656	9855	62	28009	252	...	20245	28537	18439	...	615177
October	199589	146025	96202	52903	17358	9341	7586	175704	704708	11180	70	23475	...	...	19401	24054	24733	2990	755165
November	224210	189938	115416	68586	23551	13643	9484	202869	847697	12154	67	29928	...	1256	15773	32286	19551	389	919221
December	180839	170631	110824	60770	20174	20963	11411	157722	733334	12187	63	26094	...	724	16698	24985	28418	348	785319
Total	1427114	1322162	898533	492737	182753	44317	80270	2443326	6891212	128564	830	326120	6957	1980	205660	325158	203315	21890	7661276
% of Total Sales	20.71	19.19	13.04	7.15	2.65	.64	1.16	35.46											

How the total output of BITUMINOUS COAL was disposed of by months during 1951

Months	Sold for Consumption in:								Total Sales	Used under Colliery Boilers	Used by Colliery Railroads	Used making Briquettes	Used making Coke	Put to Stock	Put to Waste	Lifted from Stock	Lifted from Waste	Total Output
	Alberta	Saskatchewan	British Columbia	Manitoba	Ontario	Japan	United States	Sold to Railroad Companies										
January	25163	15648	44889	24688	16695	...	3648	223986	354717	11572	97	29008	879	15655	29048	8136	657	432183
February	27332	16556	41834	21518	18767	...	4934	195039	325980	10139	68	21202	938	16206	26125	5787	779	394092
March	20836	7633	52347	13383	11534	...	4595	186593	296921	11022	72	19904	790	19340	26286	12210	1211	360914
April	12051	7236	48787	9645	2249	...	3670	238295	321933	9514	74	24050	869	12631	26298	18550	1262	375557
May	12273	7832	40604	12441	1878	...	4659	228177	307864	8767	68	26564	1070	14042	24629	17567	7203	358234
June	15159	10587	38127	12598	3353	...	4223	228331	312378	9103	63	31759	671	8698	27880	18492	1679	370381
July	16167	12063	48239	10093	5299	...	6934	205375	304170	8552	53	28822	632	10880	25196	13447	5372	359486
August	22113	10614	51486	11385	8187	...	10560	231936	346281	9745	73	37305	856	18580	25597	9938	...	428499
September	27807	12969	55277	18053	8492	370	8523	169299	300790	9475	62	28009	252	18647	27400	18331	...	366304
October	35307	16217	62191	19632	8189	9341	7505	175704	334086	10748	70	23475	...	18680	22406	22130	2990	384365
November	33075	18881	68853	22196	9089	13643	9484	202869	378090	11410	67	29928	...	12142	30825	18343	389	443730
December	31321	17106	68159	20917	7933	20963	11369	157722	335490	11432	63	26094	...	16307	23300	27114	28	385544
Total	278604	153342	620793	196549	101665	44317	80104	2443326	3918700	121479	830	326120	6957	181808	314990	190025	21570	4659289
% of Total Sales	7.11	3.91	15.85	5.02	2.59	1.13	2.04	62.35										

How the total output of SUB-BITUMINOUS COAL was disposed of by months during 1951

Months	Sold for Consumption in:						Total Sales	Used under Colliery Boilers	Used making Fabricoal	Put to Stock	Put to Waste	Lifted from Stock	Lifted from Waste	Total Output
	Alberta	Saskatchewan	British Columbia	Manitoba	Ontario	United States								
January	152445	134131	26766	43355	15362	...	372059	1305	...	709	1785	585	...	375273
February	115400	96891	15512	24931	10402	43	263179	858	...	1471	689	300	...	265897
March	96936	60756	15981	13476	5362	...	192511	719	...	2205	923	2018	...	194340
April	45108	66658	11625	14621	605	...	138617	526	...	1739	205	2178	...	138909
May	39420	61980	11547	13796	959	...	127702	391	...	2039	271	1884	...	128519
June	34472	74911	10386	14302	1159	...	135230	383	...	4062	133	374	...	139434
July	27334	43348	8380	9100	1364	...	89526	271	...	1315	85	598	...	90599
August	41475	84158	21499	18289	4328	...	169749	321	...	3971	146	110	...	174077
September	90985	91597	32805	24804	5675	...	245866	380	...	1598	1137	108	...	248873
October	164282	129808	34011	33271	9169	81	370622	432	...	721	1648	2623	...	370800
November	191135	171057	46563	46390	14462	...	469607	744	1256	3631	1461	1208	...	475491
December	149518	153525	42665	39853	12241	42	397844	755	724	391	1685	1304	320	399775
Total:	1148510	1168820	277740	296188	81088	166	2972512	7085	1980	23852	10168	13290	320	3001987
% of Total Sales	38.60	39.32	9.34	9.96	2.73	.05								

Amount of COAL sold during the years 1915 to 1951 (inclusive) for consumption in:

Year	Alberta	B.C.	Saskatchewan	Manitoba	Ontario	N.W.T.	Quebec	U.S.A.	To Railroads	Alaska	Total
1915.....	2,129,130	54,860	695,898	64,816	...	...	...	25,047	...	...	2,969,751
1916.....	2,866,670	86,413	1,007,765	97,265	...	...	...	61,092	...	...	4,119,205
1917.....	2,813,413	76,397	1,139,771	249,872	...	...	...	93,081	...	...	4,372,534
1918.....	3,440,154	101,189	1,372,439	511,168	629	...	...	133,276	...	...	5,558,855
1919.....	2,991,110	95,461	1,115,329	314,290	308	...	...	121,212	...	...	4,637,710
1920.....	1,647,202	128,850	1,310,146	600,962	13,911	...	30	153,610	2,516,555	...	6,371,266
1921.....	1,415,861	116,089	1,294,441	495,388	9,898	...	...	133,823	2,023,204	...	5,488,704
1922.....	1,443,942	107,920	1,371,249	520,518	21,573	...	102	105,514	2,076,291	...	5,647,109
1923.....	1,382,788	108,326	1,223,454	533,639	52,334	...	...	83,557	3,110,121	...	6,514,219
1924.....	1,431,327	114,186	1,189,788	510,407	16,525	...	...	39,142	1,613,574	...	4,914,949
1925.....	1,440,032	117,037	1,297,653	509,655	28,831	...	...	40,507	2,139,716	...	5,573,431
1926.....	1,325,290	127,858	1,296,181	591,267	74,559	...	221	48,216	2,706,440	...	6,170,032
1927.....	1,508,089	187,028	1,427,904	612,542	22,680	...	...	45,160	2,759,765	...	6,563,168
1928.....	1,409,475	262,198	1,511,141	605,125	44,265	...	...	52,265	3,054,239	...	6,938,708
1929.....	1,446,555	236,840	1,455,213	588,647	55,335	...	33	51,625	2,923,827	...	6,758,075
1930.....	1,234,382	227,385	1,221,542	541,537	29,784	...	32	44,291	2,120,237	...	5,419,190
1931.....	1,020,694	171,610	905,574	442,761	27,036	...	100	30,434	1,668,451	...	4,266,660
1932.....	1,134,311	136,188	1,097,382	497,006	20,583	...	135	27,366	1,619,921	...	4,532,892
1933.....	1,123,357	120,911	1,052,910	449,681	39,437	...	32	18,449	1,500,061	...	4,304,838
1934.....	1,087,898	127,638	986,639	391,132	55,947	31	...	13,739	1,687,850	...	4,350,874
1935.....	1,246,959	221,758	1,120,816	435,813	64,659	...	...	24,712	1,960,555	...	5,075,272
1936.....	1,356,690	244,928	1,238,730	450,740	65,886	...	...	27,397	1,969,569	...	5,353,940
1937.....	1,326,054	269,023	1,085,812	437,954	62,521	82	...	41,328	2,028,389	...	5,251,163
1938.....	1,278,932	238,435	1,011,207	413,663	74,111	83	...	32,507	1,871,852	...	4,920,790
1939.....	1,241,618	239,227	1,044,367	409,046	90,206	...	...	33,139	2,109,684	...	5,167,287
1940.....	1,311,644	237,642	1,019,035	354,857	133,587	14	...	35,354	2,720,793	...	5,812,926
1941.....	1,335,606	304,928	1,052,913	430,663	234,606	...	...	32,742	3,090,290	...	6,481,748
1942.....	1,474,795	652,222	1,259,669	580,336	231,258	...	...	98,197	2,864,586	...	7,171,063
1943.....	1,560,212	864,911	1,455,612	627,368	1,190	...	...	414,627	2,098,535	...	7,071,753
1944.....	1,424,293	678,960	1,225,075	533,027	10,163	...	...	266,664	2,583,101	1,064	6,742,643
1945.....	1,567,940	868,396	1,242,001	541,882	278,814	...	...	162,698	2,416,803	...	7,098,928
1946.....	1,608,296	982,413	1,449,002	658,733	348,137	...	...	137,271	2,893,207	...	8,136,694
1947.....	1,671,130	899,403	1,475,006	583,414	162,898	...	...	91,235	2,504,604	...	7,433,989
1948.....	1,593,629	945,700	1,413,283	625,009	202,520	...	.58	84,492	2,312,273	...	7,377,914
1949.....	1,614,306	891,132	1,232,890	629,456	187,976	...	...	45,972	3,012,425	...	7,617,632
1950.....	1,672,519	873,558	1,366,723	586,920	312,563	...	...	105,765	2,308,365	...	7,226,413
1951.....	1,427,114	898,533	1,322,162	492,737	182,753	...	...	80,270	2,443,326	...	6,891,212

NOTE: Previous to 1920 Railroad Coal was included in Sales in Alberta. Included in the above totals are 49,298 tons for Ships Bunkers in 1943, 20,296 in 1944, 20,394 in 1945, 21,770 in 1946, and 4,107 in 1947. The above also includes 37,865 tons shipped to China in 1946 and 27,731 in 1947, also 44,461 tons sent to Japan in 1947, and 200,947 tons in 1948, and 3,475 tons to China in 1949, and also 44,317 tons shipped to Japan in 1951.

Coal produced by years from 1947 to 1951:

BITUMINOUS COAL FIELD

Areas	1947	1948	1949	1950	1951
Group 1:					
Cascade	280,769	338,399	304,743	346,339	337,847
Highwood	...	...	2,958	...	...
Nordegg	343,720	319,418	338,280	154,272	9,934
Group 2:					
Crowsnest	1,967,880	1,917,462	2,465,426	2,043,659	2,391,251
Mountain Park	954,949	1,105,467	1,128,903	982,667	770,501
Group 3:					
Coalspur	754,775	782,206	810,675	794,957	751,909
Halcourt	1,017	654	282	297	936
Lethbridge	462,322	395,654	384,431	406,502	335,271
Morley	1,758	915	140	302	...
Pekisko	3,389	4,200	7,057	3,096	5,495
Pincher	681	726	870	734	5
Prairie Creek	655	853	321	297	1,126
Red Deer	...	...	...	...	71
Saunders	65,342	54,482	50,961	59,898	55,143
No Area	139	360	280	...	...
Total	4,837,376	4,920,796	5,495,327	4,793,020	4,659,289

SUB-BITUMINOUS COAL FIELD

Group 4:					
Ardley	15,368	23,871	18,565	34,757	53,091
Big Valley	14,230	18,344	27,550	33,489	17,568
Brooks	134,643	135,826	119,815	86,369	75,648
Carbon	70,159	67,117	56,962	68,529	56,098
Champion	8,296	6,397	5,950	6,372	7,164
Drumheller	1,857,416	1,678,352	1,608,598	1,636,424	1,566,102
Edmonton	493,133	438,912	473,767	495,636	356,770
Gleichen	14,940	14,368	13,201	15,896	13,926
Milk River	1,605	1,661	1,302	733	408
Pembina	95,468	112,859	180,382	197,901	164,682
Taber	128,376	121,461	137,629	136,267	121,405
Wetaskiwin	1,385	1,653	1,411	1,459	872
Whitecourt	231	...	459	850	820
Group 5:					
Camrose	83,512	102,917	76,223	96,101	60,929
Castor	72,058	106,445	127,397	218,224	273,085
High Prairie	...	...	...	...	...
Pakowki	16	...	448	494	243
Redcliff	8,603	12,460	11,518	14,120	5,458
Rochester	5,748	...	520	261	193
Sheerness	54,194	56,646	56,684	62,919	56,004
Slave	...	180	75	88	...
Tofield	177,120	281,329	193,503	205,755	158,971
Westlock	719	9,419	9,697	12,542	12,550
Total	3,237,220	3,190,217	3,121,656	3,325,186	3,001,987

Total output of BITUMINOUS COAL by areas during each month:

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Group 1:													
Cascade	32929	28225	26097	26620	26009	24179	13766	36118	31183	32901	33531	26289	337847
Highwood	...	...	...	...	...	...	...	...	...	...	...	...	...
Nordegg	...	...	684	507	91	48	148	266	80	455	971	6684	9934
Group 2:													
Crowsnest	212000	193325	172580	208063	207155	220373	212494	229408	173153	182350	211415	168935	2391251
Mtn. Park	80515	63308	73818	77521	53728	54590	62234	67198	58752	51875	66058	60704	770301
Group 3:													
Coalspur	70828	67403	63907	49249	52608	47734	39177	64037	65934	71286	82017	77729	751909
Halcourt	52	23	18	...	65	35	39	19	43	46	37	559	936
Lethbridge	26160	37113	18727	12490	17441	21341	26839	24634	31143	38124	42367	38892	335271
Morley	...	...	...	...	...	...	...	...	...	...	...	...	...
Pekisko	711	581	427	207	...	...	...	285	560	940	827	957	5495
Pincher	5	...	...	...	...	...	...	...	...	...	...	...	5
Pr. Creek	212	112	72	7	28	58	71	52	110	220	102	82	1126
Red Deer	...	...	...	...	...	...	...	...	...	...	43	28	71
Saunders	8771	4002	4584	893	1109	2023	4718	6482	5346	6168	6362	4685	55143
No Area	...	...	...	...	...	...	...	...	...	...	...	...	...
TOTAL:	432183	394092	360914	375557	358234	370381	359486	428499	366304	384365	443730	385544	4659289

Total output of SUB-BITUMINOUS COAL by areas during each month:

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Group 4:													
Ardley	7547	6346	2412	55	237	332	488	550	5537	9963	11545	8079	53091
Big Valley	3819	1536	1239	349	93	81	...	23	1439	3019	3282	2688	17568
Brooks	14779	7631	1435	...	...	5	...	...	10291	13314	14637	13556	75648
Carbon	9244	6157	3869	1743	733	1520	650	1999	4836	7695	10686	6966	56098
Champion	1082	817	506	337	186	157	246	562	631	911	1028	701	7164
Drumheller	171829	147746	97039	106908	102491	115041	73976	144255	134662	155673	161434	155048	1566102
Edmonton	56327	41650	32130	10756	10519	9683	6036	11027	20629	44687	64294	49032	356770
Gleichen	2394	1608	1082	242	277	387	385	993	1197	1526	2158	1677	13926
Milk River	83	45	46	12	...	32	13	...	93	...	73	11	408
Pembina	20064	15953	13592	8141	6758	4790	4114	5603	9577	17287	30546	28257	164682
Taber	20389	308	13118	170	23	...	...	324	12185	22284	28520	24084	121405
Wetaskiwin	183	185	105	...	...	...	...	10	73	73	99	144	872
Whitecourt	208	84	...	...	...	...	...	...	...	...	209	319	820
Group 5:													
Camrose	8316	5494	3682	841	439	470	299	996	4681	12235	13593	9883	60929
Castor	27863	8076	8443	3180	4507	4435	2900	4818	25914	41671	78811	62467	273085
Pakowki	28	13	8	...	...	...	...	11	22	54	71	36	243
Redcliff	567	217	111	...	...	...	39	337	524	1387	1787	489	5458
Rochester	...	...	...	193	...	...	...	...	...	...	...	...	193
Sheerness	6403	5513	2596	3056	1430	1300	717	1282	5572	11705	10142	6288	56004
Slave	...	...	...	...	...	...	...	...	...	...	...	...	...
Tofield	22376	14933	11956	2899	818	1158	728	1282	10631	25730	39157	27303	158971
Westlock	1772	1585	971	27	8	43	8	5	379	1586	3419	2747	12550
TOTAL:	375273	265897	194340	138909	128519	139434	90599	174077	248873	370800	475491	399775	3001987

Total Sales of BITUMINOUS COAL for consumption by Railroad Companies:

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Group 1:													
Cascade	8983	8507	9594	13578	13921	12100	6399	13451	12049	12612	11051	8734	130979
Nordegg	...	...	...	...	...	...	...	...	...	...	...	...	...
Group 2:													
Crowsnest	144260	130221	110876	167139	164041	174195	163083	170074	112952	125199	145448	107229	1714717
Mtn. Park	53456	44923	50226	42824	33421	25292	26168	27024	24950	18952	24838	23449	395523
Group 3:													
Coalspur	17287	11388	15897	14754	16794	16744	9725	21387	19348	18941	21532	18310	202107
Total:	223986	195039	186593	238295	228177	228331	205375	231936	169299	175704	202869	157722	2443326

Total Amount of Bituminous Coal disposed of by areas during each month for consumption in Alberta:

MINE RUN

Group 1:													
Cascade	142	10	13	14	...	...	...	1	9	12	...	5	206
Highwood	...	...	...	...	...	...	...	...	...	...	...	...	...
Nordegg	...	...	...	...	...	...	103	225	...	335	637	573	1873
Group 2:													
Crowsnest	1451	1472	1549	926	661	799	488	1380	1855	3085	2993	2319	18978
Mtn. Park	647	266	256	89	84	74	71	124	168	211	188	222	2400
Group 3:													
Coalspur	59	181	119	83	58	50	69	66	75	68	71	62	961
Halcourt	...	...	...	...	...	...	...	...	...	...	...	238	238
Lethbridge	898	930	568	362	267	270	199	473	714	1392	1094	1048	8215
Pekisko	711	581	427	207	...	...	...	285	560	940	827	957	5495
Pincher	...	...	...	...	...	...	...	...	...	...	...	...	...
Pr. Creek	162	34	...	7	...	...	...	...	...	...	...	...	203
Red Deer	...	...	...	...	...	...	...	...	...	...	43	...	43
Saunders	...	...	...	...	...	...	...	...	...	...	...	...	...
No Area	...	...	...	...	...	...	...	...	...	...	...	...	...
Total:	4070	3474	2932	1688	1070	1193	930	2554	3381	6043	5853	5424	38612

LUMP COAL

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Group 1:													
Cascade	216	292	208	72	20	13	55	45	34	103	113	85	1256
Highwood	...	...	...	...	...	...	...	...	...	...	...	...	...
Nordegg	...	...	...	...	...	...	...	...	...	...	...	...	...
Group 2:													
Crowsnest	427	558	517	209	155	188	106	126	441	705	752	509	4693
Mtn. Park	66	88	100	12	9	27	20	...	143	107	94	46	712
Group 3:													
Coalspur	2275	2330	1746	499	1123	1175	1068	2148	2188	2591	2623	2798	22564
Halcourt	37	16	11	...	52	28	33	5	38	33	25	32	310
Lethbridge	3997	4707	3292	1719	1096	2374	2693	4430	4675	6122	6092	6215	47412
Morley	...	...	...	...	...	...	...	...	...	...	...	...	...
Pekisko	...	...	...	...	...	...	...	...	...	...	...	...	...
Pincher	5	...	...	...	...	...	...	...	...	...	...	...	5
Pr. Creek	...	28	36	...	73	4	61	...	110	170	83	36	601
Red Deer	...	...	...	...	...	...	...	...	...	...	...	21	21
Saunders	275	212	222	42	...	82	138	314	300	388	417	263	2653
No Area	...	...	...	...	...	...	...	...	...	...	...	...	...
Total:	7298	8231	6132	2553	2528	3891	4174	7068	7929	10219	10199	10005	80227

NUT COAL

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Group 1:													
Cascade	109	30	2	5	1	2	2	...	2	2	1	1	157
Highwood	...	...	...	...	...	...	...	...	...	...	...	...	...
Nordegg	...	...	...	...	...	...	...	...	...	...	...	...	...
Group 2:													
Crowsnest	565	369	189	494	187	256	298	186	402	586	...	45	3577
Mtn. Park	...	...	...	...	...	...	...	...	4	10	4	10	28
Group 3:													
Coalspur	71	49	75	50	55	25	49	14	111	218	142	30	889
Halcourt	...	...	...	...	...	...	...	...	...	...	...	...	...
Lethbridge	1472	2045	2195	1479	1464	1985	2224	2760	3595	3837	3324	2899	29279
Morley	...	...	...	...	...	...	...	...	...	...	...	...	...
Pekisko	...	...	...	...	...	...	...	...	...	...	...	...	...
Pincher	...	...	...	...	...	...	...	...	...	...	...	...	...
Pr. Creek	...	...	...	...	...	15	...	12	...	...	...	...	27
Saunders	313	202	170	33	15	126	230	130	111	138	255	144	1867
No Area	...	...	...	...	...	...	...	...	...	...	...	...	...
Total:	2530	2695	2631	2061	1722	2409	2803	3102	4225	4791	3726	3129	35824

PREPARED STOKER

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Group 1:													
Cascade	316	509	317	181	210	242	160	228	321	374	218	180	3256
Highwood	...	...	...	...	...	...	...	...	...	...	...	...	...
Nordegg	...	...	...	...	...	...	...	...	...	...	...	...	...
Group 2:													
Crowsnest	913	953	1363	847	538	513	447	615	607	825	765	466	8852
Mtn. Park	10	10	...	8	...	5	...	...	...	...	...	...	33
Group 3:													
Coalspur	940	746	612	131	233	204	167	614	716	830	566	790	6549
Halcourt	13	5	6	...	12	6	6	14	5	7	9	123	206
Lethbridge	1016	663	557	484	336	344	159	905	881	1193	1250	1089	8877
Morley	...	...	...	...	...	...	...	...	...	...	...	...	...
Pekisko	...	...	...	...	...	...	...	...	...	...	...	...	...
Pincher	...	...	...	...	...	...	...	...	...	...	...	...	...
Pr. Creek	...	...	...	...	...	...	...	...	38	40	7	...	85
Saunders	403	33	422	77	...	164	220	225	217	461	363	251	2836
No Area	...	...	...	...	...	...	...	...	...	...	...	...	...
Total:	3611	2919	3277	1728	1329	1478	1159	2601	2785	3730	3178	2899	30694

NUT-SLACK

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Group 1:													
Cascade	...	...	...	...	...	...	...	...	...	...	...	...	...
Highwood	...	...	...	...	...	...	...	...	...	...	...	...	...
Nordegg	...	...	...	...	...	...	...	...	...	...	...	...	...
Group 2:													
Crowsnest	...	...	...	346	...	...	347	...	...	...	...	...	693
Mtn. Park	...	...	...	...	...	...	...	...	...	...	...	...	...
Group 3:													
Coalspur	...	...	...	...	...	...	...	...	...	...	56	...	56
Halcourt	...	...	...	...	...	...	...	...	...	...	...	...	...
Lethbridge	62	49	38	35	35	28	28	33	35	52	56	47	498
Morley	...	...	...	...	...	...	...	...	...	...	...	...	...
Pekisko	...	...	...	...	...	...	...	...	...	...	...	...	...
Pincher	...	...	...	...	...	...	...	...	...	...	...	...	...
Pr. Creek	...	...	...	...	...	...	...	...	...	...	...	...	...
Saunders	...	...	33	...	...	...	...	...	31	...	...	35	99
No Area	...	...	...	...	...	...	...	...	...	...	...	...	...
Total:	62	49	71	381	35	28	375	33	66	52	112	82	1346

SLACK

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Group 1:													
Cascade	1551	1291	461	1209	...	...	152	...	...	...	...	...	4664
Highwood	...	...	...	...	...	...	...	...	...	...	...	...	...
Nordegg	...	...	...	...	...	...	...	...	...	...	...	...	...
Group 2:													
Crowsnest	1148	1137	2054	...	2143	1617	774	2052	3356	3099	2090	2750	22220
Mtn. Park	...	...	...	...	...	...	...	...	...	...	...	...	...
Group 3:													
Coalspur	...	8	16	4	4	4	...	4	...	...	...	...	40
Halcourt	...	...	...	...	...	...	...	...	...	5	2	28	35
Lethbridge	4893	7528	3262	2427	3442	4539	5800	4699	6064	7368	7915	6997	64934
Morley	...	...	...	...	...	...	...	...	...	...	...	...	...
Pekisko	...	...	...	...	...	...	...	...	...	...	...	...	...
Pincher	...	...	...	...	...	...	...	...	...	...	...	...	...
Pr. Creek	...	...	...	...	...	...	...	...	...	...	...	...	...
Red Deer	...	...	...	...	...	...	...	...	...	...	...	7	7
Saunders	...	...	...	...	...	...	...	...	1	...	...	...	1
No Area	...	...	...	...	...	...	...	...	...	...	...	...	...
Total:	7592	9964	5793	3640	5589	6160	6726	6755	9421	10472	10007	9782	91901

Total amount of Sub-Bituminous Coal disposed of by areas during each month for consumption in ALBERTA:

MINE RUN

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Group 4:													
Ardley	2529	1209	895	4	...	34	...	27	1113	2333	3216	1971	13331
Big Valley	448	181	136	1	3	...	...	...	6	44	4	...	823
Brooks	2200	1521	498	...	...	5	...	...	2198	4169	2198	2931	15720
Carbon	936	542	228	28	47	60	33	85	615	1810	2203	390	6977
Champion	...	...	...	...	...	...	...	...	...	...	...	...	...
Drumheller	658	490	318	71	24	32	129	67	222	1849	1138	374	5372
Edmonton	4730	3201	2021	268	230	303	351	745	1865	5798	13355	8889	41756
Gleichen	894	717	390	135	121	249	312	732	764	907	1074	734	7029
Milk River	83	45	46	12	...	32	13	...	93	...	73	11	408
Pembina	114	105	93	7	1	3	...	2	8	10	122	85	550
Taber	...	13	3	...	...	...	...	...	26	50	89	99	280
Wetaskiwin	163	159	90	...	...	...	...	10	65	65	81	127	760
Whitecourt	208	84	...	...	...	...	...	...	...	...	209	315	816
Group 5:													
Camrose	121	87	49	9	...	38	11	25	...	7	132	173	652
Castor	2251	1475	716	346	20	88	76	327	1231	1823	2571	1625	12549
Pakowki	28	13	8	...	...	...	...	11	22	54	71	36	243
Redcliff	...	...	...	...	...	...	...	...	...	...	...	...	...
Rochester	...	...	...	193	...	...	...	...	...	...	...	...	193
Sheerness	562	685	263	630	356	195	40	...	20	141	227	22	3141
Slave	...	...	...	...	...	...	...	...	...	...	...	...	...
Tofield	628	325	82	118	38	155	43	40	75	77	...	...	1581
Westlock	428	463	246	22	3	3	7	5	187	447	956	658	3425
Total:	16981	11315	6082	1844	843	1197	1015	2076	8510	19584	27719	18440	115606

LUMP COAL

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Group 4:													
Ardley	2673	3139	789	14	61	89	143	236	2438	4477	4772	3317	22148
Big Valley	795	622	719	176	68	15	...	23	1342	1458	1670	1175	8063
Brooks	662	289	289	...	...	...	...	...	300	972	1404	1106	5022
Carbon	2718	1836	1485	550	234	230	216	724	1704	3118	3638	2710	19163
Champion	797	588	378	256	136	122	180	369	449	664	729	500	5168
Drumheller	16812	14467	11174	7751	6448	7756	7774	10555	11941	13889	16361	13884	138812
Edmonton	19122	13472	9746	2443	3471	3022	1349	3849	9276	17104	20317	15036	118207
Gleichen	878	512	432	93	108	104	65	237	369	513	726	584	4621
Milk River	...	...	...	...	...	...	...	...	...	...	...	...	...
Pembina	3724	2986	2500	773	461	585	515	739	1594	4734	5000	5103	28714
Taber	1548	175	1437	122	17	...	...	42	798	2859	2492	2377	11867
Wetaskiwin	...	...	...	...	...	...	...	...	...	...	...	...	...
Whitecourt	...	...	...	...	...	...	...	...	...	...	...	...	...
Group 5:													
Camrose	2496	1804	663	18	...	...	...	178	1944	5649	3601	2881	19234
Castor	5369	1019	3558	43	563	55	624	748	7757	11763	15482	10120	57101
Pakowki	...	...	...	...	...	...	...	...	...	...	...	...	...
Redcliff	58	50	34	...	...	...	39	337	465	1089	1082	265	3419
Rochester	...	...	...	...	...	...	...	...	...	...	...	...	...
Sheerness	1391	1257	634	83	...	78	58	100	2239	6186	4335	2036	18397
Slave	...	...	...	...	...	...	...	...	...	...	...	...	...
Tofield	7497	5453	3947	412	129	221	212	335	3992	10424	16969	9963	59554
Westlock	856	717	480	3	5	4	...	...	84	683	1702	1423	5957
Total:	67396	48386	38265	12737	11701	12281	11175	18472	46692	85582	100280	72480	525447

NUT COAL

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Group 4:													
Ardley	1073	954	276	14	66	92	128	164	1016	1740	2064	1452	9039
Big Valley	279	89	163	80	7	25	...	...	33	271	138	126	1211
Brooks	39	161	...	...	...	...	...	...	122	80	258	208	868
Carbon	880	1018	654	281	145	240	142	354	678	445	683	616	6136
Champion	185	158	81	53	34	29	43	99	108	137	151	106	1184
Drumheller	2953	2526	2480	2504	1679	1804	1677	1857	2379	3402	3647	2538	29446
Edmonton	9982	7527	7479	1321	1079	1083	817	1340	3697	7304	9704	7890	59223
Gleichen	240	206	159	...	10	18	...	1	4	16	158	187	999
Milk River	...	...	...	...	...	...	...	...	...	...	...	...	...
Pembina	1780	1413	1441	333	159	273	59	333	1050	2877	2993	3209	15920
Taber	1230	85	1343	29	3	...	...	63	1578	3259	2367	2191	12148
Wetaskiwin	...	...	...	...	...	...	...	...	...	...	...	...	...
Whitecourt	...	...	...	...	...	...	...	...	...	...	...	...	...
Group 5:													
Camrose	1278	1264	1721	491	177	280	155	323	1273	1897	1939	1793	12591
Castor	1113	520	1043	109	230	156	124	154	1270	2183	2421	2273	11596
Pakowki	...	...	...	...	...	...	...	...	...	...	...	...	...
Redcliff	...	...	...	...	...	...	...	...	19	18	29	8	74
Rochester	...	...	...	...	...	...	...	...	...	...	...	...	...
Sheerness	444	476	209	272	328	234	71	160	816	1507	1327	854	6698
Slave	...	...	...	...	...	...	...	...	...	...	...	...	...
Tofield	267	189	166	17	9	20	1	25	241	342	738	422	2437
Westlock	290	245	153	2	...	...	...	...	69	333	529	419	2040
Total:	22033	16831	17368	5506	3926	4254	3217	4873	14353	25811	29146	24292	171610

PREPARED STOKER

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Group 4:													
Ardley	829	729	278	21	105	100	197	98	530	965	759	684	5295
Big Valley	58	52	123	92	2	1	...	...	58	106	22	126	640
Brooks	84	39	...	...	...	...	...	...	41	...	123	93	380
Carbon	968	751	578	219	130	190	129	212	444	780	1036	974	6411
Champion	44	32	27	18	12	6	13	69	50	66	97	66	500
Drumheller	2445	2128	1753	1260	488	662	1085	1099	1725	2210	2428	1719	19002
Edmonton	5507	4065	3400	830	781	626	503	851	2187	3789	3453	3883	29875
Gleichen	190	131	96	14	26	13	8	23	50	68	121	106	846
Milk River	...	...	...	...	...	...	...	...	...	...	...	...	...
Pembina	1928	1694	1811	361	175	207	349	587	1436	1358	1523	1747	13176
Taber	484	...	876	...	...	...	...	...	241	630	392	577	3200
Wetaskiwin	20	26	15	...	...	...	...	...	8	8	18	17	112
Whitecourt	...	...	...	...	...	...	...	...	...	...	...	...	...
Group 5:													
Camrose	1046	961	913	277	171	152	55	140	196	516	490	522	5439
Castor	1172	407	943	49	265	55	9	28	1369	1773	2542	1906	10518
Pakowki	...	...	...	...	...	...	...	...	...	...	...	...	...
Redcliff	...	...	...	...	...	...	...	...	...	...	...	...	...
Rochester	...	...	...	...	...	...	...	...	...	...	...	...	...
Sheerness	508	414	257	39	103	114	47	50	252	219	280	313	2596
Slave	...	...	...	...	...	...	...	...	...	...	...	...	...
Tofield	430	165	217	8	4	21	43	7	327	278	425	305	2230
Westlock	104	94	74	...	...	36	...	...	47	72	117	113	657
Total:	15817	11688	11361	3138	2262	2183	2438	3164	8961	12838	13826	13151	100877

NUT-SLACK

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Group 4:													
Ardley	43	15	...	...	...	...	...	...	...	...	106	121	285
Big Valley	...	...	98	...	...	...	...	...	...	...	...	...	98
Brooks	...	...	...	...	...	...	...	...	...	155	183	250	588
Carbon	152	153	105	24	7	14	...	21	58	139	200	40	913
Champion	...	...	...	4	...	...	...	...	...	...	...	...	4
Drumheller	918	504	1088	1023	550	1131	1524	2359	2365	1857	1388	2349	17056
Edmonton	969	1194	391	140	134	571	528	687	621	1081	1148	936	8400
Gleichen	46	39	5	...	12	3	...	...	10	22	79	66	282
Milk River	...	...	...	...	...	...	...	...	...	...	...	...	...
Pembina	135	125	66	43	41	21	25	51	100	168	161	180	1116
Taber	...	...	139	...	...	...	...	...	...	...	...	...	139
Wetaskiwin	...	...	...	...	...	...	...	...	...	...	...	...	...
Whitecourt	...	...	...	...	...	...	...	...	...	...	...	...	...
Group 5:													
Camrose	...	...	...	...	...	...	...	16	301	430	608	500	1855
Castor	18	...	...	...	...	...	...	...	...	...	...	...	18
Pakowki	...	...	...	...	...	...	...	...	...	...	...	...	...
Redcliff	...	...	...	...	...	...	...	...	...	...	...	...	...
Rochester	...	...	...	...	...	...	...	...	...	...	...	...	...
Sheerness	...	...	...	...	...	...	...	...	...	...	...	...	...
Slave	...	...	...	...	...	...	...	...	...	...	...	...	...
Tofield	307	306	161	...	...	...	...	...	...	7	7	14	802
Westlock	1	1	...	...	...	...	...	...	...	...	...	...	2
Total:	2589	2337	2053	1234	744	1740	2077	3134	3455	3859	3880	4456	31558

SLACK COAL

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Group 4:													
Ardley	...	...	24	...	...	2	...	...	...	...	...	...	26
Big Valley	5	...	...	...	63	...	...	...	...	668	668	10	78
Brooks	107	153	36	...	...	...	...	...	246	106	19	21	688
Carbon	989	775	345	234	163	267	128	205	776	736	1137	976	6731
Champion	42	31	11	...	2	...	10	25	24	43	51	29	268
Drumheller	11534	11402	7236	8737	8751	3800	2724	4422	4895	7696	7492	6193	84882
Edmonton	9262	9356	8018	5877	4948	4182	2344	2724	1549	4694	4890	6223	64067
Gleichen	...	3	...	...	...	...	...	...	...	...	...	...	3
Milk River	...	...	...	...	...	...	...	...	...	...	...	...	...
Pembina	2961	2980	3960	5743	5057	3076	2205	2377	1419	2102	2188	1930	35998
Taber	1997	...	2145	...	...	...	...	...	11	423	684	463	5723
Wetaskiwin	...	...	...	...	...	...	...	...	...	...	...	...	...
Whitecourt	...	...	...	...	...	...	...	...	...	...	...	4	4
Group 5:													
Camrose	82	82	29	...	...	...	...	3	87	26	74	55	438
Castor	592	21	...	8	960	1490	...	...	...	45	123	629	3868
Pakowki	...	...	...	...	...	...	...	...	...	...	...	...	...
Redcliff	...	...	...	...	...	...	...	...	...	...	...	...	...
Rochester	...	...	...	...	...	...	...	...	...	...	...	...	...
Sheerness	...	...	...	...	...	...	...	...	...	...	...	...	...
Slave	...	...	...	...	...	...	...	...	...	...	...	...	...
Tofield	...	...	...	...	...	...	...	...	4	53	249	87	393
Westlock	58	40	3	...	...	...	1	...	3	16	45	79	245
Total	27629	24843	21807	20599	19944	12817	7412	9756	9014	16608	16284	16699	203412

Total amount of Bituminous coal disposed of by areas during each month for consumption in SASKATCHEWAN

MINE RUN

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Group 1:													
Cascade	...	...	...	...	...	...	...	...	...	...	...	...	...
Highwood	...	...	...	...	...	...	...	...	...	...	...	...	...
Nordegg	...	...	...	...	...	...	...	...	...	...	...	...	...
Group 2:													
Crowsnest	234	45	45	45	60	45	137	138	412	160	358	230	1909
Mtn. Park	49	...	...	...	55	...	...	...	...	...	45	...	149
Group 3:													
Coalspur	...	...	...	...	...	...	...	...	...	...	...	...	...
Halcourt	...	...	...	...	...	...	...	...	...	...	...	...	...
Lethbridge	...	...	...	...	...	...	...	...	...	...	...	...	...
Morley	...	...	...	...	...	...	...	...	...	...	...	...	...
Pekisko	...	...	...	...	...	...	...	...	...	...	...	...	...
Pincher	...	...	...	...	...	...	...	...	...	...	...	...	...
Pr. Creek	...	...	...	...	...	...	...	...	...	...	...	...	...
Saunders	...	...	...	...	...	...	...	...	...	...	...	...	...
No Area	...	...	...	...	...	...	...	...	...	...	...	...	...
Total:	283	45	45	45	115	45	137	138	412	160	403	230	2058

LUMP COAL

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Group 1:													
Cascade	...	45	...	...	...	42	...	...	54	...	...	...	141
Highwood	...	...	...	...	...	...	...	...	...	...	...	...	...
Nordegg	...	...	...	...	...	...	...	...	...	...	...	...	...
Group 2:													
Crowsnest	584	581	181	278	229	267	391	179	484	508	405	1194	5281
Mtn. Park	...	...	...	...	...	...	...	...	...	...	...	...	...
Group 3:													
Coalspur	1339	1424	296	242	226	661	763	765	577	967	1354	1218	9832
Halcourt	...	...	...	...	...	...	...	...	...	...	...	...	...
Lethbridge	5463	8135	3381	3379	3964	5806	6429	4578	5570	7205	9412	8360	71682
Morley	...	...	...	...	...	...	...	...	...	...	...	...	...
Pekisko	...	...	...	...	...	...	...	...	...	...	...	...	...
Pincher	...	...	...	...	...	...	...	...	...	...	...	...	...
Pr. Creek	...	...	...	...	...	...	...	...	...	...	...	...	...
Saunders	1199	350	326	121	173	276	949	861	793	1033	1146	949	8176
No Area	...	...	...	...	...	...	...	...	...	...	...	...	...
Total:	8585	10535	4184	4020	4592	7052	8532	6383	7478	9713	12317	11721	95112

NUT COAL

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Group 1:													
Cascade	...	...	...	...	...	...	...	...	...	...	...	...	...
Highwood	...	...	...	...	...	...	...	...	...	...	...	...	...
Nordegg	...	...	...	...	...	...	...	...	...	...	...	...	...
Group 2:													
Crowsnest	504	374	...	59	103	91	182	205	147	311	97	45	2118
Mtn. Park	...	...	...	...	...	...	...	...	...	...	...	...	...
Group 3:													
Coalspur	82	122	39	...	...	40	...	88	41	...	82	76	570
Halcourt	...	...	...	...	...	...	...	...	...	...	...	...	...
Lethbridge	2017	3243	1035	1594	1882	1957	1577	1447	2291	3204	3314	3082	26643
Morley	...	...	...	...	...	...	...	...	...	...	...	...	...
Pekisko	...	...	...	...	...	...	...	...	...	...	...	...	...
Pincher	...	...	...	...	...	...	...	...	...	...	...	...	...
Pr. Creek	...	...	...	...	...	...	...	...	...	...	...	...	...
Saunders	277	320	...	34	31	109	142	418	370	411	182	149	2443
No Area	...	...	...	...	...	...	...	...	...	...	...	...	...
Total:	2880	4059	1074	1687	2016	2197	1901	2158	2849	3926	3675	3352	31774

PREPARED STOKER

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Group 1:													
Cascade	111	284	256	220	44	44	42	333	387	168	127	43	2059
Highwood	...	...	...	...	...	...	...	...	...	...	...	...	...
Nordegg	...	...	...	...	...	...	...	...	...	...	...	...	...
Group 2:													
Crowsnest	42	114	79	82	40	251	85	83	125	137	203	158	1399
Mtn. Park	...	...	...	...	...	...	...	...	...	...	...	...	...
Group 3:													
Coalspur	892	602	848	756	631	344	246	268	183	307	215	495	5787
Halcourt	...	...	...	...	...	...	...	...	...	...	...	...	...
Lethbridge	501	261	258	45	...	177	173	211	432	445	619	296	3418
Morley	...	...	...	...	...	...	...	...	...	...	...	...	...
Pekisko	...	...	...	...	...	...	...	...	...	...	...	...	...
Pincher	...	...	...	...	...	...	...	...	...	...	...	...	...
Pr. Creek	...	...	...	...	...	...	...	...	...	...	...	...	...
Saunders	277	66	187	65	161	171	146	310	392	210	449	263	2697
No Area	...	...	...	...	...	....	...	...	...	...	...	...	...
Total:	1823	1327	1628	1168	876	987	692	1205	1519	1267	1613	1255	15360

NUT-SLACK

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Group 1:													
Cascade	...	...	...	...	...	...	...	...	...	...	...	...	...
Highwood	...	...	...	...	...	...	...	...	...	...	...	...	...
Nordegg	...	...	...	...	...	...	...	...	...	...	...	...	...
Group 2:													
Crowsnest	...	45	...	45	...	45	...	...	45	207	...	...	387
Mtn. Park	...	...	...	...	...	...	...	...	...	...	...	...	...
Group 3:													
Coalspur	...	...	...	...	...	...	...	...	...	...	47	...	47
Halcourt	...	...	...	...	...	...	...	...	...	...	...	...	...
Lethbridge	...	...	...	...	...	...	...	...	...	...	...	...	...
Morley	...	...	...	...	...	...	...	...	...	...	...	...	...
Pekisko	...	...	...	...	...	...	...	...	...	...	...	...	...
Pincher	...	...	...	...	...	...	...	...	...	...	...	...	...
Pr. Creek	...	...	...	...	...	...	...	...	...	...	...	...	...
Saunders	79	34	116	...	35	...	34	102	118	38	190	14	760
No Area	...	...	...	...	...	...	...	...	...	...	...	...	...
Total:	79	79	116	45	35	45	34	102	163	245	237	14	1194

SLACK COAL

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Group 1:													
Cascade	...	...	...	...	...	...	...	...	...	...	...	...	...
Highwood	...	...	...	...	...	...	...	...	...	...	...	...	...
Mordegg	...	...	...	...	...	...	...	...	...	...	...	...	...
Group 2:													
Crowsnest	...	...	...	...	...	...	...	...	...	...	...	...	...
Mtn. Park	829	...	...	...	...	...	...	...	...	...	...	...	829
Group 3:													
Coalspur	...	...	87	167	88	...	...	...	...	185	...	...	527
Halcourt	...	...	...	...	...	...	...	...	...	...	...	...	...
Lethbridge	31	...	...	...	...	...	...	...	...	...	...	...	31
Morley	...	...	...	...	...	...	...	...	...	...	...	...	...
Pekisko	...	...	...	...	...	...	...	...	...	...	...	...	...
Pincher	...	...	...	...	...	...	...	...	...	...	...	...	...
Pr. Creek	...	...	...	...	...	...	...	...	...	...	...	...	...
Saunders	1138	511	499	104	110	261	767	628	548	721	636	534	6457
No Area	...	...	...	...	...	...	...	...	...	...	...	...	...
Total:	1998	511	586	271	198	261	767	628	548	906	636	534	7844

Total amount of Sub-Bituminous Coal disposed of by areas durihg each month for consumption in SASKATCHEWAN

MINE RUN

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Group 4:													
Ardley	...	...	...	...	...	...	...	...	...	...	...	...	...
Big Valley	...	...	...	...	...	...	...	...	...	...	...	...	...
Brooks	...	...	...	...	...	...	...	...	...	...	...	...	...
Carbon	...	...	...	...	...	...	...	...	...	...	...	...	...
Champion	...	...	...	...	...	...	...	...	...	...	...	...	...
Drumheller	226	68	91	41	130	40	...	...	50	5273	153	...	6072
Edmonton	600	150	...	...	...	...	...	...	116	200	670	546	2282
Gleichen	144	...	...	...	...	...	...	...	...	...	...	...	144
Milk River	...	...	...	...	...	...	...	...	...	...	...	...	...
Pembina	...	...	...	...	...	...	...	...	...	...	...	...	...
Taber	...	...	...	...	...	...	...	...	...	...	...	...	...
Wetaskiwin	...	...	...	...	...	...	...	...	...	...	...	...	...
Whitecourt	...	...	...	...	...	...	...	...	...	...	...	...	...
Group 5:													
Camrose	...	...	...	...	...	...	...	...	...	...	...	...	...
Castor	267	...	...	...	...	...	...	...	...	...	...	...	267
Pakowki	...	...	...	...	...	...	...	...	...	...	...	...	...
Redcliff	...	...	...	...	...	...	...	...	...	...	...	...	...
Rochester	...	...	...	...	...	...	...	...	...	...	...	...	...
Sheerness	237	165	...	118	...	...	...	...	...	...	...	...	520
Slave	...	...	...	...	...	...	...	...	...	...	...	...	...
Tofield	447	1063	498	444	232	117	161	80	76	77	120	168	3483
Westlock	...	...	...	...	...	...	...	...	...	...	...	...	...
Total:	1921	1446	589	603	362	157	161	80	242	5550	943	714	12768

LUMP COAL

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Group 4:													
Ardley	...	...	...	...	...	...	...	...	...	...	...	...	...
Big Valley	1013	297	...	...	...	...	...	...	...	50	362	...	1722
Brooks	3962	1339	167	...	...	...	...	...	1638	2996	3600	3052	16754
Carbon	503	129	...	...	...	494	...	172	47	92	403	330	2170
Champion	...	...	...	...	...	...	...	...	...	...	...	...	...
Drumheller	57072	48723	27010	38476	40072	45538	25387	52057	44318	46913	50698	49685	525949
Edmonton	1362	644	217	...	...	...	...	46	128	1102	2346	1444	7289
Gleichen	...	...	...	...	...	...	...	...	...	...	...	...	...
Milk River	...	...	...	...	...	...	...	...	...	...	...	...	...
Pembina	2290	1318	531	63	...	42	69	128	238	1293	3299	2039	11310
Taber	3014	...	464	...	...	...	...	43	863	2842	3594	3832	14652
Wataskiwin	...	...	...	...	...	...	...	...	...	...	...	...	...
Whitecourt	...	...	...	...	...	...	...	...	...	...	...	...	...
Group 5:													
Camrose	1102	265	...	...	...	...	...	...	204	988	2645	1285	6489
Castor	5782	895	169	...	...	...	...	775	3098	9103	27842	19677	67341
Pakowki	...	...	...	...	...	...	...	...	...	...	...	...	...
Redcliff	396	85	77	...	...	...	...	...	...	163	592	128	1441
Rochester	...	...	...	...	...	...	...	...	...	...	...	...	...
Sheerness	1503	1006	552	736	208	165	160	372	769	1031	1997	1877	10376
Slave	...	...	...	...	...	...	...	...	...	...	...	...	...
Tofield	5263	2643	3287	833	92	157	102	389	2124	7401	11435	8836	42562
Westlock	...	...	...	...	...	...	...	...	...	...	...	...	...
Total:	83262	57344	32474	40108	40372	46396	25718	53982	53427	73974	108813	92185	708055

NUT COAL

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Group 4:													
Ardley	...	...	...	...	...	...	...	...	...	...	...	...	...
Big Valley	44	...	...	...	...	...	...	...	...	48	...	...	92
Brooks	639	85	...	...	...	...	...	...	165	282	1049	380	2600
Carbon	123	...	...	...	...	...	...	...	49	48	143	96	459
Champion	...	...	...	...	...	...	...	...	...	...	...	...	...
Drumheller	9616	8263	5440	6432	5453	5182	3923	7631	6563	9363	9006	10418	87290
Edmonton	121	47	44	...	...	...	...	...	41	89	466	207	1015
Gleichen	...	...	...	...	...	...	...	...	...	...	...	...	...
Milk River	...	...	...	...	...	...	...	...	...	...	...	...	...
Pembina	458	127	87	...	...	...	25	...	58	551	1014	405	2725
Taber	617	...	87	...	...	...	...	...	530	1069	1283	873	4459
Wetaskiwin	...	...	...	...	...	...	...	...	...	...	...	...	...
Whitecourt	...	...	...	...	...	...	...	...	...	...	...	...	...
Group 5:													
Camrose	208	84	40	...	...	...	40	...	...	83	449	203	1107
Castor	381	79	40	90	248	172	510	400	1270	3104	4004	3021	13319
Pakowki	...	...	...	...	...	...	...	...	...	...	...	...	...
Redcliff	...	...	...	...	...	...	...	...	...	...	...	...	...
Rochester	...	...	...	...	...	...	...	...	...	...	...	...	...
Sheerness	499	418	167	411	...	123	120	123	359	370	378	252	3220
Slave	...	...	...	...	...	...	...	...	...	...	...	...	...
Tofield	875	972	1158	418	94	...	57	124	527	1208	1638	1423	8494
Westlock	...	...	...	...	...	...	...	...	...	...	...	...	...
Total:	13581	10075	7063	7351	5795	5477	4675	8278	9562	16215	19430	17278	124780

PREPARED STOKER

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Group 4:													
Ardley	...	...	...	...	...	...	...	...	...	...	...	...	...
Big Valley	90	...	...	...	...	...	...	...	...	...	...	...	90
Brooks	165	...	40	...	...	...	...	...	42	78	57	159	541
Carbon	...	...	...	...	...	...	...	...	...	...	...	...	...
Champion	...	...	...	...	...	...	...	...	...	...	...	...	...
Drumheller	8453	6834	4226	3845	2386	3234	2718	5216	5331	6820	7680	6585	63328
Edmonton	45	...	...	...	...	...	...	...	99	178	...	115	437
Gleichen	...	...	...	...	...	...	...	...	...	...	...	...	...
Milk River	...	...	...	...	...	...	...	...	...	...	...	...	...
Pembina	558	565	378	149	127	...	163	123	378	319	602	585	3947
Taber	114	...	254	...	...	...	...	...	266	269	...	83	986
Wetaskiwin	...	...	...	...	...	...	...	...	...	...	...	...	...
Whitecourt	...	...	...	...	...	...	...	...	...	...	...	...	...
Group 5:													
Camrose	...	131	...	...	...	...	38	42	44	185	39	73	552
Castor	820	658	703	723	479	655	50	...	629	1675	2282	3633	12307
Pakowki	...	...	...	...	...	...	...	...	...	...	...	...	...
Redcliff	...	...	...	...	...	...	...	...	...	...	...	...	...
Rochester	...	...	...	...	...	...	...	...	...	...	...	...	...
Sheerness	652	563	285	564	313	273	156	360	755	1304	848	479	6552
Slave	...	...	...	...	...	...	...	...	...	...	...	...	...
Tofield	1500	1048	1015	425	145	262	84	85	799	1323	1751	1636	10073
Westlock	...	...	...	...	...	...	...	...	...	...	...	...	...
Total:	12397	9799	6901	5706	3450	4424	3209	5826	8343	12151	13259	13348	98813

NUT SLACK

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Group 4:													
Ardley	...	...	...	...	...	...	...	...	...	...	...	...	...
Big Valley	...	...	...	...	...	...	...	...	...	...	...	...	...
Brooks	444	...	...	...	...	...	...	...	...	...	672	664	1780
Carbon	...	...	258	397	...	...	...	...	...	...	...	...	655
Champion	...	...	...	...	...	...	...	...	...	...	...	...	...
Drumheller	4740	4581	2946	3044	2171	2156	1777	1814	2339	3812	5565	5747	40692
Edmonton	...	...	...	...	...	...	...	...	...	...	...	...	...
Gleichen	...	...	...	...	...	...	...	...	...	...	...	...	...
Milk River	...	...	...	...	...	...	...	...	...	...	...	...	...
Pembina	...	...	...	...	...	...	...	...	...	...	73	...	73
Taber	...	...	...	...	...	...	...	...	...	...	...	...	...
Wetaskiwin	...	...	...	...	...	...	...	...	...	...	...	...	...
Whitecourt	...	...	...	...	...	...	...	...	...	...	...	...	...
Group 5:													
Camrose	...	...	...	...	...	...	...	...	...	57	...	41	98
Castor	...	...	...	...	...	...	...	...	...	...	...	...	...
Pakowki	...	...	...	...	...	...	...	...	...	...	...	...	...
Redcliff	...	...	...	...	...	...	...	...	...	...	...	...	...
Rochester	...	...	...	...	...	...	...	...	...	...	...	...	...
Sheerness	...	...	...	...	...	...	...	...	...	...	...	...	...
Slave	...	...	...	...	...	...	...	...	...	...	...	...	...
Tofield	178	199	...	...	...	...	...	...	...	95	122	229	823
Westlock	...	...	...	...	...	...	...	...	...	...	...	...	...
Total:	5362	4780	3204	3441	2171	2156	1777	1814	2339	3964	6432	6681	44121

SLACK COAL

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Group 4:													
Ardley	...	...	...	...	...	...	...	...	...	...	...	...	...
Big Valley	...	...	...	...	...	...	...	...	...	...	...	...	...
Brooks	...	129	...	...	...	...	...	...	...	...	141	495	765
Carbon	...	...	...	...	...	...	...	...	...	...	...	...	...
Champion	...	...	...	...	...	...	...	...	...	...	...	...	...
Drumheller	15139	12817	8487	8065	8524	14201	6313	12643	12373	12866	14258	15468	141154
Edmonton	...	...	...	...	...	...	...	...	...	...	42	...	42
Gleichen	2	...	...	...	...	...	...	...	...	...	...	...	2
Milk River	...	...	...	...	...	...	...	...	...	...	...	...	...
Pembina	93	101	178	58	47	341	162	185	640	248	340	673	3066
Taber	1638	...	1572	...	...	...	...	...	1346	1387	1935	2555	10433
Wetaskiwin	...	...	...	...	...	...	...	...	...	...	...	...	...
Whitecourt	...	...	...	...	...	...	...	...	...	...	...	...	...
Group 5:													
Camrose	42	...	...	...	...	...	...	...	...	...	44	...	86
Castor	424	88	288	1326	1259	1759	1333	1350	3241	2796	4705	3588	22157
Pakowki	...	...	...	...	...	...	...	...	...	...	...	...	...
Redcliff	...	...	...	...	...	...	...	...	...	...	...	...	...
Rochester	...	...	...	...	...	...	...	...	...	...	...	...	...
Sheerness	270	312	...	...	...	...	...	...	...	657	652	384	2275
Slave	...	...	...	...	...	...	...	...	...	...	...	...	...
Tofield	...	...	...	...	...	...	...	...	84	...	63	156	303
Westlock	...	...	...	...	...	...	...	...	...	...	...	...	...
Total:	17608	13447	10525	9449	9830	16301	7808	14178	17684	17954	22180	23319	180283

Total amount of Bituminous Coal disposed of by areas during each month for consumption in BRITISH COLUMBIA:

MINE RUN

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Group 1:													
Cascade	221	171	88	135	317	140	202	90	...	87	44	88	1583
Highwood	...	...	...	...	...	...	...	...	...	...	...	....	...
Nordegg	...	...	...	...	...	...	...	...	...	...	...	...	...
Group 2:													
Crowsnest	44	41	45	...	...	...	...	...	91	46	43	...	310
Mtn. Park	...	...	...	...	...	...	...	...	...	...	...	...	....
Group 3:													
Coalspur	...	...	...	...	...	...	...	...	...	...	...	48	48
Halcourt	...	...	...	...	...	...	...	...	...	...	...	137	137
Lethbridge	...	...	...	...	...	...	...	...	...	...	...	...	...
Morley	...	...	...	...	...	...	...	...	...	...	...	...	...
Pekisko	...	...	...	...	...	...	...	...	...	...	...	...	...
Pincher	...	...	...	...	...	...	...	...	...	...	...	...	...
Pr. Creek	...	...	...	...	...	...	...	...	...	...	...	...	...
Saunders	...	...	...	...	...	...	...	...	...	...	...	...	...
No Area	...	...	...	...	...	...	...	...	...	...	...	...	...
Total:	265	212	133	135	317	140	202	90	91	133	87	273	2078

LUMP COAL

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Group 1:													
Cascade	...	...	...	...	...	...	...	...	...	45	...	...	45
Highwood	...	...	...	...	...	...	...	...	...	...	...	...	...
Nordegg	...	...	...	...	...	...	...	...	...	...	...	...	...
Group 2:													
Crowsnest	938	812	440	863	765	595	817	941	988	1340	1310	2028	11837
Mtn. Park	...	...	...	...	...	...	...	...	...	...	40	88	128
Group 3:													
Coalspur	10547	10475	12597	10792	8770	6053	9536	8885	10235	13470	16932	16055	134347
Halcourt	...	...	...	...	...	...	...	...	...	...	...	...	...
Lethbridge	1576	1576	1810	848	1389	1638	1957	1972	2895	2489	3046	2676	23872
Morley	...	...	...	...	...	...	...	...	...	...	...	...	...
Pekisko	...	...	...	...	...	...	...	...	...	...	...	...	...
Pincher	...	...	...	...	...	...	...	...	...	...	...	...	...
Br. Creek	...	...	...	...	...	...	...	...	...	...	...	46	46
Saunders	89	45	...	...	...	40	42	85	82	139	42	53	617
No Area	...	...	...	...	...	...	...	...	...	...	...	...	...
Total:	13150	12908	14847	12503	10924	8326	12352	11883	14200	17483	21370	20946	170892

NUT COAL

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Group 1:													
Cascade	30	43	43	44	27	47	45	9	43	133	84	87	635
Highwood	...	...	...	...	...	...	...	...	...	...	...	...	...
Nordegg	...	...	...	...	...	...	...	...	...	...	...	...	...
Group 2:													
Crowsnest	174	556	270	502	394	213	398	259	260	485	949	730	5190
Mtn. Park	...	...	...	...	...	...	49	48	331	191	522	716	1857
Group 3:													
Coalspur	1680	817	1345	2557	1781	1444	1973	3038	1865	1612	2257	7568	27937
Halcourt	...	...	...	...	...	...	...	...	...	...	...	...	...
Lethbridge	720	590	585	185	327	623	1118	643	974	1233	1949	982	9929
Morley	...	...	...	...	...	...	...	...	...	...	...	...	...
Pekisko	...	...	...	...	...	...	...	...	...	...	...	...	...
Pincher	...	...	...	...	...	...	...	...	...	...	...	...	...
Pr. Creek	...	...	...	...	...	...	...	...	...	...	...	...	...
Saunders	39	...	...	...	...	...	...	...	36	...	...	33	108
No Area	...	...	...	...	...	...	...	...	...	...	...	...	...
Total:	2643	2006	2243	3288	2529	2327	3583	3997	3509	3654	5761	10116	45656

PREPARED STOKER

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Group 1:													
Cascade	710	390	842	726	102	281	...	521	859	405	420	847	6103
Highwood	...	...	...	...	...	...	...	...	...	...	...	...	...
Nordegg	...	...	...	...	...	...	...	...	...	...	...	...	...
Group 2:													
Crowsnest	982	907	1008	374	459	419	416	609	1047	1177	944	529	8871
Mtn. Park	931	152	160	111	56	256	96	192	186	285	705	564	3694
Group 3:													
Coalspur	9197	7604	6543	5960	4561	4280	4944	9046	8523	10203	13732	8749	93342
Halcourt	...	...	...	...	...	...	...	...	...	...	...	...	...
Lethbridge	471	486	355	86	132	90	130	223	414	257	296	627	3567
Morley	...	...	...	...	...	...	...	...	...	...	...	...	...
Pekisko	...	...	...	...	...	...	...	...	...	...	...	...	...
Pincher	...	...	...	...	...	...	...	...	...	...	...	...	...
Pr. Creek	...	...	...	...	...	...	...	...	...	...	...	...	...
Saunders	...	...	...	...	...	...	...	...	...	...	...	32	32
No Area	...	...	...	...	...	...	...	...	...	...	...	...	...
Total:	12291	9539	8908	7257	5310	5326	5586	10591	11029	12327	16097	11348	115609

NUT-SLACK

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Group 1:													
Cascade	...	...	...	...	...	...	...	...	...	...	...	43	43
Highwood	...	...	...	...	...	...	...	...	...	...	...	...	...
Nordegg	...	...	...	...	...	...	...	...	...	...	...	...	...
Group 2:													
Crowsnest	1117	997	957	1181	1059	225	...	...	...	...	105	1996	7637
Mtn. Park	...	...	5266	7944	5196	3154	3490	4265	3789	2834	2564	1198	39700
Group 3:													
Coalspur	...	...	...	...	...	...	...	432	886	4187	1030	906	7441
Halcourt	...	...	...	...	...	...	...	...	...	...	...	...	...
Lethbridge	...	...	...	...	...	...	...	...	...	...	...	...	...
Morley	...	...	...	...	...	...	...	...	...	...	...	...	...
Pekisko	...	...	...	...	...	...	...	...	...	...	...	...	...
Pincher	...	...	...	...	...	...	...	...	...	...	...	...	...
Pr. Creek	...	...	...	...	...	...	...	...	...	...	...	...	...
Saunders	...	...	...	...	...	...	...	...	...	...	...	...	...
No Area	...	...	...	...	...	...	...	...	...	...	...	...	...
Total:	1117	997	6223	9125	6255	3379	3490	4697	4675	7021	3699	4143	54821

SLACK COAL

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Group 1:													
Cascade	...	...	...	...	...	...	...	...	...	...	...	...	...
Highwood	...	...	...	...	...	...	...	...	...	...	...	...	...
Nordegg	...	...	...	...	...	...	...	...	...	...	...	...	...
Group 2:													
Crowsnest	9340	10656	12173	10129	8959	9453	9848	9668	8076	10564	9706	9149	117721
Mtn. Park	1021	2077	945	906	...	2627	10333	4703	8314	6682	7432	6460	51500
Group 3:													
Coalspur	5062	3439	6875	5444	6310	6549-	2845	5857	5383	4327	4701	5724	62516
Halcourt	...	...	...	...	...	...	...	...	...	...	...	...	...
Lethbridge	...	...	...	...	...	...	...	...	...	...	...	...	...
Morley	...	...	...	...	...	...	...	...	...	...	...	...	...
Pekisko	...	...	...	...	...	...	...	...	...	...	...	...	...
Pincher	...	...	...	...	...	...	...	...	...	...	...	...	...
Pr. Creek	...	...	...	...	...	...	...	...	...	...	...	...	...
Saunders	...	...	...	...	...	...	...	...	...	...	...	...	...
No Area	...	...	...	...	...	...	...	...	...	...	...	...	...
Total:	15423	16172	19993	16479	15269	18629	23026	20228	21773	21573	21839	21333	231737

Total amount of Sub-Bituminous Coal disposed of by areas during each month for consumption in BRITISH COLUMBIA

MINE RUN

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Group 4:													
Drumheller	126	86	124	125	80	41	...	45	80	937	123	43	1810
Total:	126	86	124	125	80	41	...	45	80	937	123	43	1810
						LUMP COAL							
Ardley	...	...	...	...	...	...	...	...	...	...	...	...	...
Big Valley	98	...	...	...	...	...	...	...	...	...	...	96	194
Brooks	1058	334	88	...	...	...	...	...	596	1004	1093	805	4978
Carbon	143	203	49	...	...	...	...	49	143	141	234	187	1149
Drumheller	10216	6288	7002	7662	7267	7064	4490	12026	10061	9500	11332	9714	102622
Edmonton	823	281	379	80	111	84	165	165	200	457	499	566	3810
Gleichen	...	...	...	...	...	...	...	...	...	...	...	...	...
Pembina	800	527	475	127	20	20	117	332	925	1024	2361	2072	8800
Taber	1290	...	1510	...	...	...	...	86	2653	3353	4983	2745	16620
Group 5:													
Camrose	126	252	87	...	...	...	...	136	376	870	1255	1114	4216
Castor	563	163	201	...	...	...	...	199	1284	1765	5546	4617	14338
Redcliff	41	...	...	...	...	...	...	...	...	...	...	...	41
Tofield	441	213	82	16	...	...	...	...	383	653	850	808	3446
Total:	15599	8261	9873	7885	7398	7168	4772	12993	16621	18767	28153	22724	160214

NUT COAL

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Group 4:													
Brooks	168	87	45	...	...	...	...	...	138	93	105	86	722
Carbon	...	...	...	...	...	...	...	...	...	49	51	50	150
Drumheller	1421	1074	1058	943	1094	1315	935	1992	2284	1907	1833	1976	17832
Edmonton	86	...	...	...	...	...	...	...	...	44	99	...	229
Pembina	429	253	473	132	279	62	84	168	613	497	770	373	4133
Taber	1223	...	933	...	...	...	...	45	2200	2237	2134	1744	10516
Group 5:													
Camrose	125	85	91	46	49	...	...	90	128	450	456	326	1846
Castor	...	...	...	135	252	...	121	141	357	165	281	757	2209
Tofield	...	28	...	74	...	...	...	40	141	15	25	112	435
Total:	3452	1527	2600	1330	1674	1377	1140	2476	5861	5457	5754	5424	38072
					PREPARED STOKER								
Group 4:													
Brooks	255	243	...	...	...	...	...	...	84	160	163	205	1110
Carbon	93	...	...	...	...	...	...	...	96	...	49	...	238
Drumheller	2549	1490	1175	1515	1325	949	707	2078	2049	2782	2272	2438	21329
Edmonton	...	19	...	...	18	...	...	...	...	...	46	...	83
Pembina	460	204	591	216	254	130	215	338	161	455	3993	6965	13982
Taber	210	...	693	...	...	...	...	45	762	683	727	581	3701
Group 5:													
Camrose	87	130	89	...	42	...	...	43	44	122	119	39	715
Castor	314	192	332	264	87	...	48	83	541	772	937	1347	4917
Tofield	184	115	181	...	...	46	...	132	325	47	140	...	1170
Total:	4152	2393	3061	1995	1726	1125	970	2719	4062	5021	8446	11575	47245

NUT-SLACK

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Group 4:													
Brooks	54	69	138	...	...	...	...	...	3237	509	839	143	4989
Drumheller	175	81	91	266	526	501	368	812	462	526	494	771	5073
Pembina	461	123	...	...	...	...	...	...	...	...	...	...	584
Group 5:													
Tofield	...	...	...	...	...	...	...	...	...	...	25	...	25
Total:	690	273	229	266	526	501	368	812	3699	1035	1358	914	10671

SLACK COAL

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Group 4:													
Brooks	612	1046	50	...	...	...	...	...	530	920	376	415	3949
Drumheller	...	...	...	24	143	174	1087	2454	1902	1832	1573	1411	10600
Pembina	19	...	...	...	...	...	43	...	50	...	116	72	300
Taber	...	...	44	...	...	...	...	...	...	...	664	...	708
Group 5:													
Castor	2116	1926	...	...	...	...	...	...	...	42	...	87	4171
Total:	2747	2972	94	24	143	174	1130	2454	2482	2794	2729	1985	19728

Total amount of Bituminous Coal disposed of by areas during each month for consumption in MANITOBA:

MINE RUN

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Group 1:													
Cascade	43	136	203	...	...	135	...	122	...	180	68	45	932
Group 2:													
Crowsnest	140	37	45	141	...	92	...	...	103	155	289	171	1173
Mtn. Park	2119	1793	704	369	1077	526	138	208	213	1339	975	927	10388
Total:	2302	1966	952	510	1077	753	138	330	316	1674	1332	1143	12493
						LUMP COAL							
Group 1:													
Cascade	274	...	...	...	...	...	...	752	809	605	1116	414	3970
Group 2:													
Crowsnest	962	611	228	404	263	700	658	778	1102	500	1224	868	8298
Mtn. Park	58	...	...	...	...	51	57	145	223	43	50	...	627
Group 3:													
Coalspur	6312	8883	3517	2464	4644	4504	1790	2646	3564	2827	3366	4193	48710
Lethbridge	1440	2085	1116	342	1657	1995	1739	1161	1375	2335	2312	1784	19341
Saunders	1736	846	736	251	260	377	824	1268	1236	1007	1205	493	10239
Total:	10782	12425	5597	3461	6824	7627	5068	6750	8309	7317	9273	7752	91185

NUT COAL

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Group 1:													
Cascade	319	345	429	...	655	24	...	695	696	272	269	234	3938
Group 2:													
Crowsnest	933	902	630	844	540	336	684	297	954	783	1399	1164	9466
Mtn. Park	...	...	...	...	...	...	...	...	192	336	...	183	711
Group 3:													
Coalspur	230	212	199	242	371	289	...	...	37	269	238	236	2323
Lethbridge	485	221	132	85	295	170	128	260	255	384	339	636	3390
Saunders	226	148	39	...	...	...	41	148	...	55	35	62	754
Total:	2193	1828	1429	1171	1861	819	853	1400	2134	2099	2280	2515	20582

PREPARED STOKER

Group 1:													
Cascade	531	471	561	509	392	733	234	866	468	249	113	154	5281
Group 2:													
Crowsnest	2561	1628	1177	402	167	333	1714	41	2900	2248	2683	1582	17436
Mtn. Park	565	43	48	...	...	281	177	...	196	631	495	46	2482
Group 3:													
Coalspur	1597	1028	344	576	224	379	130	116	279	237	314	375	5599
Lethbridge	85	86	43	...	...	...	...	...	...	44	43	...	301
Saunders	112	...	70	...	...	...	...	...	31	77	...	31	321
Total:	5451	3256	2243	1487	783	1726	2255	1023	3874	3486	3648	2188	31420

NUT SLACK

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Group 2:													
Crowsnest	...	...	...	...	...	45	...	...	677	456	1650	1458	4286
Mtn. Park	1704	...	1600	716	...	...	...	...	1113	2970	2045	2678	12826
Group 3:													
Saunders	158	34	79	32	...	61	...	119	44	...	113	120	760
Total:	1862	34	1679	748	...	106	...	119	1834	3426	3808	4256	17872

SLACK COAL

Group 2:													
Crowsnest	147	...	...	...	72	...	...	...	...	...	...	...	219
Mtn. Park	1851	1963	1483	2268	1824	1567	1691	1763	1586	1630	1855	3063	22544
Group 3:													
Saunders	100	46	...	...	...	...	88	...	...	...	...	...	234
Total:	2098	2009	1483	2268	1896	1567	1779	1763	1586	1630	1855	3063	22997

Total amount of Sub-Bituminous coal disposed of by areas during each month for consumption in MANITOBA:

MINE RUN

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Group 4:													
Drumheller	14	...	...	...	...	...	...	...	10	1963	81	...	2068
Group 5:													
Castor	350	...	...	...	...	...	...	...	44	280	977	970	2621
Total:	364	...	...	...	...	...	...	...	54	2243	1058	970	4689
						LUMP COAL							
Group 4:													
Big Valley	619	46	...	...	...	...	...	...	...	94	336	142	1237
Brooks	1526	752	40	...	...	...	...	...	703	891	1521	1275	6708
Carbon	1365	669	130	...	...	...	...	170	177	123	654	487	3775
Drumheller	18541	17642	10279	12817	12449	12581	7374	15013	14152	14568	16343	15314	167073
Edmonton	2116	774	42	...	...	...	82	208	243	1717	2340	1866	9388
Pembina	726	144	...	...	...	...	...	...	357	152	2118	1233	4730
Taber	4768	...	715	...	...	...	...	...	645	1857	3531	3647	15163
Group 5:													
Camrose	261	41	...	...	...	...	...	...	41	379	796	427	1945
Castor	4132	431	180	38	...	...	...	430	3206	3102	7680	6561	25760
Redcliff	72	82	...	...	...	...	...	...	40	117	84	88	483
Tofield	2725	1053	774	67	...	45	...	...	1305	2571	3360	2529	14429
Total:	36851	21634	12160	12922	12449	12626	7456	15821	20869	25571	38763	33569	250691

NUT COAL

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Group 4:													
Brooks	124	...	...	...	...	...	...	...	45	...	131	83	383
Carbon	182	...	...	...	...	...	...	...	...	...	...	45	227
Drumheller	2187	1762	572	882	973	1188	1353	1320	1815	1927	2149	2474	18602
Edmonton	307	128	42	...	...	...	...	...	51	286	608	146	1568
Pembina	131	129	...	...	...	...	43	86	88	87	672	211	1447
Taber	621	...	91	...	...	...	...	...	132	838	1319	501	3502
Group 5:													
Camrose	169	40	...	...	...	...	...	...	43	42	85	...	379
Castor	387	...	...	...	...	...	...	...	38	272	89	346	1132
Tofield	251	112	131	20	3	...	...	...	86	140	154	173	1070
Total:	4359	2171	836	902	976	1188	1396	1406	2298	3592	5207	3979	28310

PREPARED STOKER

Group 4:													
Brooks	40	...	...	...	...	...	...	...	125	...	...	82	247
Drumheller	735	344	82	416	207	399	164	676	575	823	731	341	5493
Edmonton	...	...	...	...	...	...	...	...	...	...	...	20	20
Pembina	128	241	186	106	56	...	40	124	421	320	156	126	1904
Taber	...	...	118	...	...	...	...	...	43	127	52	...	340
Group 5:													
Camrose	253	...	...	...	...	...	...	...	...	40	166	81	540
Castor	310	...	...	...	...	...	...	68	39	243	...	334	994
Tofield	57	28	...	47	...	89	...	...	117	120	93	...	551
Total:	1523	613	386	569	263	488	204	868	1320	1673	1198	984	10089

NUT SLACK

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Group 4:													
Drumheller	214	513	94	228	63	...	44	194	263	192	164	351	2320
Group 5:													
Tofield	44	...	...	...	45	...	...	...	...	...	...	...	89
Total:	258	513	94	228	108	...	44	194	263	192	164	351	2409

Total amount of Bituminous Coal disposed of by areas during each month for consumption in ONTARIO:

MINE RUN

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Group 2:													
Crowsnest	...	...	...	...	...	...	...	...	50	...	...	...	50
Total:	...	...	...	...	...	...	...	...	50	...	...	...	50

LUMP COAL

Group 1:													
Cascade	1470	1106	1335	120	141	...	195	467	775	385	190	508	6692
Group 2:													
Crowsnest	362	425	540	...	...	...	56	45	57	44	192	377	2098
Mtn. Park	...	...	...	...	...	...	...	...	...	...	...	...	...
Group 3:													
Coalspur	4745	5556	2727	352	363	961	1425	2337	2684	2476	2964	2250	28840
Lethbridge	492	1664	360	94	127	139	521	619	976	566	735	770	7063
Saunders	1245	736	1035	40	...	335	444	1294	582	872	741	734	8058
Total:	8314	9487	5997	606	631	1435	2641	4762	5074	4343	4822	4639	52751

NUT COAL

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Group 1:													
Cascade	1031	629	546	...	...	...	70	524	827	868	912	599	6006
Group 2:													
Crowsnest	3143	3723	891	1131	817	1146	2033	1971	858	351	551	242	16862
Group 3:													
Coalspur	2175	2544	1778	42	43	...	122	251	1027	1769	2250	1513	13514
Lethbridge	246	466	293	...	...	52	45	138	296	493	147	616	2792
Saunders	257	37	235	...	35	...	39	119	...	44	149	36	951
Total:	6852	7404	3743	1173	895	1198	2309	3003	3008	3525	4009	3006	40125

PREPARED STOKER

Group 1:													
Cascade	30	61	...	...	59	...	...	...	143	...	...	...	293
Group 2:													
Crowsnest	...	...	...	...	...	...	...	...	...	...	...	...	...
Mtn. Park	...	...	...	...	...	...	...	...	...	...	...	...	...
Group 3:													
Coalspur	1180	1420	1757	...	...	...	...	112	...	...	...	...	4469
Lethbridge	...	...	...	43	...	...	...	...	...	42	...	...	85
Saunders	...	...	37	...	...	...	...	...	...	...	...	...	37
Total:	1210	1481	1794	43	59	...	...	112	143	42	...	...	4884

NUT-SLACK

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Group 2:													
Crowsnest	276	334	...	427	293	63	349	310	217	279	258	288	3094
Mtn. Park	...	...	...	...	...	...	...	...	...	...	...	...	...
Total:	276	334	...	427	293	63	349	310	217	279	258	288	3094

SLACK COAL

Group 1:													
Cascade	...	...	...	...	...	...	...	...	...	...	...	...	...
Group 2:													
Crowsnest	...	....	...	...	...	657	...	...	...	...	...	...	657
Mtn. Park	...	...	...	...	...	...	...	...	...	...	...	...	....
Group 3:													
Coalspur	...	61	...	...	...	...	...	...	...	...	...	...	61
Saunders	43	...	...	...	...	...	...	...	...	...	...	...	43
Total:	43	61	...	...	...	657	...	...	...	...	...	...	761

Total amount of Sub-Bituminous Coal disposed of by areas during each month for consumption in ONTARIO:

MINE RUN

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Group 4:													
Drumheller	...	...	...	...	...	...	...	...	...	...	80	...	80
Total:	...	...	...	...	...	...	...	...	...	...	80	....	80
					LUMP COAL								
Big Valley	...	49	...	...	...	...	...	...	...	...	...	41	90
Brooks	2550	1259	44	...	...	...	...	...	81	811	664	1088	6497
Carbon	47	46	...	...	...	...	...	...	...	...	...	...	93
Drumheller	3686	3364	2894	326	758	996	1032	2988	3650	3508	3811	4696	31709
Edmonton	981	370	132	...	...	...	88	309	458	477	1049	958	4822
Pembina	2093	2025	454	...	81	...	...	...	...	806	2463	856	8778
Taber	901	...	395	...	...	...	...	...	50	116	1151	951	3564
Group 5:													
Camrose	600	94	41	...	...	...	...	...	...	218	461	211	1625
Castor	529	132	...	...	...	...	...	95	169	170	842	693	2630
Tofield	1174	683	187	...	...	...	...	...	...	...	958	377	3379
Westlock	...	...	...	...	...	...	...	...	...	723	...	...	723
Total:	12561	8022	4147	326	839	996	1120	3392	4408	6829	11399	9871	63910

NUT COAL

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Group 4:													
Brooks	90	125	...	...	...	...	...	...	...	88	41	15	359
Drumheller	714	624	451	240	78	163	244	664	686	718	698	625	5905
Edmonton	...	91	...	...	...	...	...	44	...	192	144	146	617
Pembina	464	650	323	...	...	...	...	...	...	241	560	349	2587
Taber	642	...	264	...	...	...	...	...	...	285	1048	790	3029
Group 5:													
Camrose	255	87	...	...	...	...	...	...	...	40	119	41	542
Castor	83	38	...	39	...	...	...	...	56	47	73	...	336
Tofield	...	35	...	...	...	...	...	...	...	21	...	15	71
Total:	2248	1650	1038	279	78	163	244	708	742	1632	2683	1981	13446

PREPARED STOKER

Group 4:													
Drumheller	40	21	...	...	42	...	...	39	84	63	40	42	371
Edmonton	...	44	48	...	...	...	...	...	...	73	...	...	165
Pembina	172	276	...	...	...	...	...	...	41	45	22	44	600
Taber	48	...	...	...	...	...	...	...	41	...	...	...	89
Group 5:													
Camrose	...	...	...	...	...	...	...	...	...	...	...	...	...
Castor	...	...	...	...	...	...	...	...	...	...	44	...	44
Tofield	58	253	45	...	...	...	...	...	...	130	10	...	496
Total:	318	594	93	...	42	...	...	39	166	311	116	86	1765

NUT-SLACK

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Group 4:													
Drumheller	235	136	84	...	...	...	...	189	359	397	184	303	1887
Total:	235	136	84	...	...	...	...	189	359	397	184	303	1887

Total amount of Bituminous Coal disposed of by areas during each month for consumption in UNITED STATES:

MINE RUN

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Group 2:													
Crowsnest	...	...	...	...	...	...	50	...	...	...	...	...	50
Total:	...	...	...	...	...	...	50	...	...	...	...	...	50
						LUMP COAL							
Group 2:													
Crowsnest	53	43	56	46	65	58	58	...	44	162	199	201	985
Group 3:													
Coalspur	...	...	43	...	...	...	...	...	...	...	...	...	43
Lethbridge	...	43	...	...	...	...	50	143	42	42	...	82	402
Total:	53	86	99	46	65	58	108	143	86	204	199	283	1430
						NUT COAL							
Group 2:													
Crowsnest	1525	1965	2014	986	587	1198	610	1334	2122	2662	4199	3096	22297
Group 3:													
Coalspur	...	...	...	...	...	...	...	...	55	...	...	...	55
Lethbridge	...	49	41	...	...	...	...	...	...	...	...	41	131
Total:	1525	2014	2055	986	587	1198	610	1334	2177	2662	4199	3136	22483

PREPARED STOKER

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Group 1:													
Cascade	...	...	...	...	...	...	...	1018	328	600	1398	536	3880
Group 2:													
Crowsnest	1011	662	585	767	462	...	473	1108	950	203	146	...	6367
Group 3:													
Lethbridge	...	...	...	...	...	...	...	...	...	....	40	40	80
Total:	1011	662	585	767	462	...	473	2126	1278	803	1584	576	10327
						NUT-SLACK							
Group 2:													
Crowsnest	225	323	169	46	928	977	3245	2743	926	255	719	1976	12532
Total:	225	323	169	46	928	977	3245	2743	926	255	719	1976	12532
						SLACK COAL							
Group 1:													
Cascade	...	...	...	...	...	...	...	...	...	...	...	...	...
Group 2:													
Crowsnest	834	1801	1687	1825	2617	1990	2448	4214	4056	3581	2783	5398	33234
Mtn. Park	...	...	...	...	...	...	...	...	...	...	...	...	...
Group 3:													
Coalspur	...	...	...	...	...	...	...	...	...	...	...	...	...
Lethbridge	...	48	...	...	...	...	...	...	...	...	...	...	48
Total:	834	1849	1687	1825	2617	1990	2448	4214	4056	3581	2783	5398	33282

Total amount of Sub-Bituminous Coal disposed of by areas during each month for consumption in United States:

LUMP COAL

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Group 5:													
Camrose	...	...	...	...	...	...	...	...	...	42	...	...	42
Total:	...	...	...	...	...	...	...	...	...	42	...	...	42

PREPARED STOKER

Group 5:													
Camrose	...	43	...	...	...	...	...	...	...	39	...	42	124
Total:	...	43	...	...	...	...	...	...	...	39	...	42	124

Amount of Bituminous Coal used under Colliery Boilers by areas during each month:

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Group 1:													
Cascade	1899	1695	1832	1721	1885	2015	1175	2139	1749	2054	2103	2531	22798
Nordegg	...	...	684	507	91	48	45	41	80	120	334	624	2574
Group 2:													
Crowsnest	1995	1918	1917	1605	1211	1272	1182	1291	1128	1383	2286	1999	19187
Mtn. Park	2908	2528	2752	2694	2620	2620	2692	2731	2804	3016	3004	3215	33584
Group 3:													
Coalspur	3701	3204	3099	2725	2734	2877	2862	2974	3080	3292	2778	2049	35375
Halcourt	2	2	1	...	1	1	...	...	...	1	1	1	10
Lethbridge	286	410	307	127	69	99	98	92	125	311	477	517	2918
Pekisko	...	...	...	...	...	...	...	...	...	...	...	...	...
Pincher	...	...	...	...	...	...	...	...	...	...	...	...	...
Pr. Creek	...	...	...	...	...	...	...	...	...	...	...	...	...
Saunders	781	382	430	135	156	171	498	477	509	571	427	496	5033
No Area	...	...	...	...	...	...	...	...	...	...	...	...	...
Total:	11572	10139	11022	9514	8767	9103	8552	9745	9475	10748	11410	11432	121479

Amount of Sub-Bituminous Coal used under Colliery Boilers by areas during each month:

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Group 4:													
Big Valley	370	...	...	...	...	...	...	...	...	...	162	58	590
Carbon	80	35	22	10	7	25	2	3	9	14	30	30	267
Drumheller	473	449	441	389	272	242	197	204	248	291	397	471	4074
Edmonton	276	287	201	97	87	61	47	59	98	102	130	146	1591
Pembina	30	30	30	30	...	30	...	30	...	...	...	...	180
Group 5:													
Castor	26	7	...	...	...	...	...	...	...	...	...	...	33
Tofield	50	50	25	...	25	25	25	25	25	25	25	50	350
Total:	1305	858	719	526	391	383	271	321	380	432	744	755	7085

Amount of Bituminous Coal used by Colliery Railroads by areas during each month:

Group 1:													
Cascade	55	48	45	52	53	48	38	58	47	55	52	48	599
Group 2:													
Crowsnest	15	15	15	15	15	15	15	15	15	15	15	15	180
Group 3:													
Coalspur	27	5	12	7	...	...	...	...	...	...	...	...	51
Total:	97	68	72	74	68	63	53	73	62	70	67	63	830

Amount of Bituminous Coal used making Briquettes:

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Group 1:													
Cascade	14044	11459	9328	5981	11180	12056	7290	11527	13688	15898	16564	11810	140795
Nordegg	...	...	...	...	...	...	...	...	...	...	...	4477	4477
Group 2:													
Crowsnest	3590	1067	661	374	282	331	356	741	1017	1860	2177	2522	14978
Mtn. Park	11404	8676	9915	17695	15102	19372	21176	25037	13304	5717	11187	7285	165870
Total:	29008	21202	19904	24050	26564	31759	28822	37305	28009	23475	29928	26094	326120
			Amount of Bituminous Coal used making Coke:										
Group 2:													
Crowsnest	879	938	790	869	1070	671	632	856	252	...	...	...	6957
Total:	879	938	790	869	1070	671	632	856	252	...	...	...	6957
			Amount of Sub-Bituminous Coal used making Fabricoal:										
Group 4:													
Big Valley	...	...	...	...	...	...	...	...	...	...	1256	724	1980
Total:	...	...	...	...	...	...	...	...	...	...	1256	724	1980

Amount of Bituminous Coal put to Stock by areas during each month:

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Group 1:													
Cascade	1208	1272	703	5002	4953	4113	3852	6923	4862	2581	1158	520	37147
Nordegg	...	...	...	...	...	...	...	...	...	...	...	1010	1010
Group 2:													
Crowsnest	14107	12377	17363	7391	5103	4218	4811	9625	10211	15012	10224	14315	124757
Mtn. Park	...	452	...	...	...	...	...	46	...	...	...	...	498
Group 3:													
Coalspur	...	106	23	11	2681	130	134	56	2221	631	404	51	6448
Lethbridge	145	1949	1032	175	1120	163	1922	1755	1273	363	249	323	10469
Pr. Creek	50	50	36	...	...	39	10	40	...	10	12	...	247
Saunders	145	...	183	52	185	35	151	135	80	83	95	88	1232
Total:	15655	16206	19340	12631	14042	8698	10880	18580	18647	18680	12142	16307	181808
			Amount of Sub-Bituminous Coal Put to Stock by Areas during each month:										
Group 4:													
Big Valley	...	80	...	...	...	40	...	...	...	120	...	...	240
Champion	...	8	9	6	2	...	...	...	...	1	...	...	26
Drumheller	210	1279	2096	1704	2034	4017	1310	3951	1568	412	430	265	19276
Edmonton	350	...	35	...	...	...	...	...	...	...	2988	...	3373
Pembina	40	...	...	...	...	...	...	...	...	...	40	...	80
Taber	44	35	35	19	3	...	...	...	...	...	...	...	136
Group 5:													
Camrose	65	44	...	...	...	...	...	...	...	155	115	76	455
Castor	...	25	30	10	...	5	5	20	30	33	58	50	266
Total:	709	1471	2205	1739	2039	4062	1315	3971	1598	721	3631	391	23852

Amount of Bituminous Coal put to Waste by areas during each month:

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Group 1:													
Cascade	...	...	...	...	...	...	...	...	...	...	...	...	...
Group 2:													
Crowsnest	24292	19786	20914	22562	22141	26317	22390	21721	23465	19723	25463	18046	266820
Mtn. Park	3086	1116	2026	2270	1487	417	1448	912	912	570	768	792	15804
Group 3:													
Coalspur	1643	5199	3330	1453	987	1134	1346	2950	3007	2093	4573	4448	32163
Lethbridge	27	24	16	13	14	12	12	14	16	20	21	14	203
Total:	29048	26125	16286	26298	24629	27880	25196	25597	27400	22406	30825	23300	314990

Amount of Sub-Bituminous Coal put to Waste by areas during each month:

Group 4:													
Ardley	400	300	150	2	5	15	20	25	440	448	628	534	2967
Big Valley	...	120	...	...	...	...	...	...	...	160	...	190	470
Carbon	65	...	15	...	...	...	...	4	40	200	225	35	584
Champion	14	...	...	...	...	...	...	...	...	...	...	...	14
Drumheller	...	...	...	...	...	...	...	...	...	...	...	437	437
Edmonton	...	...	300	...	...	...	...	...	...	...	...	15	315
Pembina	70	27	15	...	...	...	...	...	...	...	53	40	205
Taber	...	...	...	...	...	...	...	...	...	...	75	75	150
Group 5:													
Camrose	...	...	...	...	...	...	...	...	...	...	...	...	...
Castor	864	...	199	...	144	...	...	...	285	515	312	233	2552
Sheerness	337	217	229	203	122	118	65	117	362	290	98	71	2229
Tofield	...	...	...	...	...	...	...	...	...	...	...	...	...
Westlock	35	25	15	...	...	...	...	...	10	35	70	55	245
Total:	1785	689	923	205	271	133	85	146	1137	1648	1461	1685	10168

Amount of Bituminous Coal lifted from Stock by areas during each month:

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Group 1:													
Cascade	334	569	709	2949	7951	7856	6145	3651	6967	4787	2470	1223	45611
Group 2:													
Crowsnest	7116	5073	8848	14414	9271	9218	7087	4197	9239	15756	15217	25332	130768
Mtn. Park	189	...	452	...	...	...	...	...	46	...	...	...	687
Group 3:													
Coalspur	213	...	17	62	73	113	17	17	151	214	210	215	1302
Lethbridge	163	145	1949	1032	175	1120	163	1922	1755	1273	363	249	10309
Pr. Creek	...	...	...	...	45	...	...	...	38	...	...	...	83
Saunders	121	...	235	93	52	185	35	151	135	80	83	95	1265
Total:	8136	5787	12210	18550	17567	18492	13447	9938	18331	22110	18343	27114	190025

Amount of Sub-Bituminous Coal lifted from Stock by areas during each month:

Group 4:													
Big Valley	...	...	...	...	50	...	...	...	...	...	...	...	50
Drumheller	273	210	1653	1878	1494	125	360	110	87	2623	1115	1264	11192
Edmonton	312	...	365	300	340	249	238	...	...	...	...	...	1804
Pembina	...	90	...	...	...	...	...	...	...	...	93	40	223
Group 5:													
Westlock	...	...	...	...	...	...	...	...	21	...	...	...	21
Total:	585	300	2018	2178	1884	374	598	110	108	2623	1208	1304	13290

Amount of Bituminous Coal lifted from Waste by areas during each month:

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Group 1:													
Cascade	...	...	...	...	...	...	...	...	...	...	...	...	...
Group 2:													
Crowsnest	657	...	...	877	...	...	...	...	...	...	...	...	1534
Mtn. Park	...	779	1211	385	7203	1679	5372	...	...	2990	389	28	20036
Total:	657	779	1211	1262	7203	1679	5372	...	...	2990	389	28	21570

Amount of Sub-Bituminous Coal lifted from Waste by areas during each month:

Group 4:													
Drumheller	...	...	...	...	...	...	...	...	...	...	...	320	320
Total:	...	...	...	...	...	...	...	...	...	...	...	320	320

OUTPUT AND NUMBER OF MINES PRODUCING

	Under 1,000 tons		1,000 to 5,000 tons		5,000 to 10,000 tons		10,000 to 50,000 tons		50,000 to 100,000 tons		100,000 to 150,000 tons		150,000 to 200,000 tons		200,000 to 300,000 tons		Over 300,000 tons		Total	
Kind of Coal	No.	Output	No.	Output	No.	Output	No.	Output	No.	Output	No.	Output	No.	Output	No.	Output	No.	Ouput	No.	Output
Bituminous.....	10	3,342	4	7,263	2	15,429	5	143,436	2	141,317	3	371,380	1	158,426	5	1,286,470	5	2,532,226	37	4,659,289
Sub-bituminous....	47	19,545	39	94,895	13	96,524	24	547,718	7	483,013	7	828,638	4	705,081	1	226,573	..	...	142	3,001,987
Total.....	57	22,887	43	102,158	15	111,953	29	691,154	9	624,330	10	1,200,018	5	863,507	6	1,513,043	5	2,532,226	179	7,661,276

Number of men employed in the BITUMINOUS FIELD as at December 31st, 1951:

Areas	UNDERGROUND						ABOVE GROUND								STRIPPING			GRAND TOTALS		
	Salaried Employees	Foremen	Miners	Maintenance	Transportation	TOTAL UNDERGROUND	Salaried Employees	Foremen	Maintenance	Transportation	Tipple and Shipping	Powerhouse	All other Employees	TOTAL ABOVE GROUND	Salaried Employees	Wage Earners	TOTAL STRIPPING	TOTAL SALARIED EMPLOYEES	TOTAL WAGE EARNERS	GRAND TOTAL
Group 1:																				
Cascade	26	1	124	48	50	249	21	2	17	14	31	41	27	153	...	...	...	47	355	402
Nordegg	5	10	48	84	52	199	15	5	2	5	25	17	23	92	...	...	...	20	271	291
Group 2:																				
Crowsnest	114	15	616	247	279	1271	97	5	12	29	276	174	52	645	33	271	304	244	1976	2220
Mtn. Park	17	...	107	40	63	227	28	9	1	25	55	32	51	201	6	50	56	51	433	484
Group 3:																				
Coalspur	29	24	171	69	71	364	24	4	...	3	55	44	17	147	33	234	267	86	692	778
Halcourt	2	...	...	...	...	2	...	...	...	...	...	...	...	...	...	6	6	2	6	8
Lethbridge	3	32	322	49	136	542	32	...	...	11	62	44	29	178	...	...	...	35	685	720
Pekisko	1	...	8	...	1	10	...	...	...	1	3	...	...	4	...	...	...	1	13	14
Pincher	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Prairie Creek	...	...	2	1	...	3	...	...	...	...	...	...	...	...	...	...	...	...	3	3
Red Deer	2	...	...	...	...	2	1	...	...	...	...	...	...	1	...	...	...	3	...	3
Saunders	6	5	66	9	13	99	8	1	...	2	16	10	3	40	...	...	...	14	125	139
Total:	205	87	1464	547	665	2968	226	26	32	90	523	362	202	1461	72	561	633	503	4559	5062

Number of men employed in the SUB-BITUMINOUS FIELD as at December 31st, 1951

Group 4:																				
Ardley	1	...	2	...	...	3	...	...	...	...	...	...	...	...	1	27	28	2	29	31
Big Valley	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2	14	16	2	14	16
Brooks	...	...	...	...	...	...	...	...	...	...	...	...	...	...	17	67	84	17	67	84
Carbon	4	3	49	8	15	79	3	1	...	6	6	1	...	17	4	17	21	11	106	117
Champion	2	...	13	...	...	15	...	...	...	1	1	...	...	2	...	...	...	2	15	17
Drumheller	43	100	870	237	220	1470	61	10	8	19	163	45	28	334	1	5	6	105	1705	1810
Edmonton	16	11	192	48	46	313	19	4	1	7	31	8	1	71	14	69	83	49	418	467
Gleichen	5	...	28	1	4	38	1	...	...	1	1	...	...	3	...	...	...	6	35	41
Milk River	...	1	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	1	1
Pembina	...	...	...	...	...	...	...	...	...	...	...	...	...	...	8	104	112	8	104	112
Taber	1	1	6	...	1	9	...	...	...	...	1	...	...	1	21	63	84	22	72	94
Wetaskiwin	1	...	2	...	...	3	...	...	...	...	...	...	...	...	...	...	...	1	2	3
Whitecourt	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	1	2	1	1	2
Group 5:																				
Camrose	...	...	...	...	...	...	...	...	...	...	...	...	...	...	6	52	58	6	52	58
Castor	8	8	40	...	4	60	...	1	...	3	...	...	...	4	20	86	106	28	142	170
Pakowki	...	1	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	1	1
Redcliff	3	...	4	...	...	7	...	...	2	3	3	2	2	12	...	...	...	3	16	19
Sheerness	...	2	...	...	...	2	...	...	...	...	...	...	...	...	2	18	20	2	20	22
Tofield	...	1	4	...	...	5	...	...	...	...	...	...	...	...	8	77	85	8	82	90
Westlock	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2	13	15	2	13	15
Total:	84	128	1210	294	290	2006	84	16	11	40	206	56	31	444	107	613	720	275	2895	3170

Bituminous Field	205	87	1464	547	665	2968	226	26	32	90	523	362	202	1461	72	561	633	503	4559	5062
S-Bituminous Field	84	128	1210	294	290	2006	84	16	11	40	206	56	31	444	107	613	720	275	2895	3170
Total:	289	215	2674	841	955	4974	310	42	43	130	729	418	233	1905	179	1174	1353	778	7454	8232

Men Employed above and below ground in the BITUMINOUS FIELD by areas during each month:

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Group 1:													
Cascade	521	470	453	341	342	320	377	397	405	416	414	402	405
Nordegg	...	...	98	106	52	52	42	62	54	67	138	291	80
Group 2:													
Crowsnest	2214	2278	2217	2205	2152	2154	2169	2115	2129	2138	2175	2220	2178
Mtn. Park	523	503	518	513	507	490	507	512	470	453	479	484	495
Group 3:													
Coalspur	755	948	809	676	744	607	700	713	743	749	765	778	748
Halcourt	3	3	3	...	2	2	2	2	2	2	2	8	5
Lethbridge	742	716	662	579	555	563	592	597	623	655	702	720	642
Pekisko	8	8	8	7	...	...	...	8	13	13	12	14	7
Pincher	2	...	...	...	...	...	...	...	...	...	...	2	1
Pr. Creek	4	3	2	2	2	2	2	2	2	4	2	3	3
Red Deer	...	...	...	...	...	...	...	...	...	...	2	3	2
Saunders	185	95	160	54	56	50	176	130	133	146	147	139	122
Total:	4957	5024	4930	4483	4412	4240	4567	4538	4574	4643	4838	5062	4688

Men Employed above and below ground in the SUB-BITUMINOUS FIELD by areas during each month:

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Group 4:													
Ardley	33	27	26	4	3	8	3	6	21	54	71	31	24
Big Valley	44	19	16	12	9	5	...	2	18	16	17	16	14
Brooks	68	58	44	...	...	1	...	...	77	83	88	84	43
Carbon	128	123	101	59	47	37	47	65	76	114	118	117	86
Champion	19	17	15	12	12	10	11	10	13	18	18	17	14
Drumheller	1862	1852	1756	1657	1718	1575	1601	1637	1675	1735	1788	1810	1722
Edmonton	670	577	385	152	147	164	159	195	304	420	507	467	345
Gleichen	73	58	57	16	23	18	16	25	27	31	47	41	36
Milk River	1	1	1	1	...	1	1	...	1	...	4	1	1
Pembina	93	84	59	38	57	58	57	52	58	91	110	112	72
Taber	53	12	80	6	2	...	...	99	68	61	83	94	46
Wetaskiwin	4	3	3	...	...	...	...	2	3	3	3	3	2
Whitecourt	1	1	...	...	...	...	...	...	...	...	1	2	1
Group 5:													
Camrose	60	43	41	21	28	33	32	34	27	51	54	58	40
Castor	189	101	75	38	43	55	57	74	109	144	179	170	102
Pakowki	1	1	1	...	...	...	...	1	1	1	2	1	1
Redcliff	21	13	10	...	...	...	6	10	14	28	34	19	13
Rochester	...	...	...	9	...	...	...	...	...	...	...	...	1
Sheerness	24	21	22	19	11	17	10	12	18	24	24	22	19
Tofield	82	60	70	46	43	39	40	43	50	65	87	90	60
Westlock	18	14	11	4	2	3	1	1	8	11	19	15	9
Total:	3444	3085	2773	2094	2145	2024	2041	2268	2568	2950	3254	3170	2651
Bituminous	4957	5024	4930	4483	4412	4240	4567	4538	4574	4643	4838	5062	4688
S. Bituminous	3444	3085	2773	2094	2145	2024	2041	2268	2568	2950	3254	3170	2651
Total:	8401	8109	7703	6577	6557	6264	6608	6806	7142	7593	8092	8232	7339

PER CAPITA PRODUCTION OF MINES IN THE PROVINCE:

Year	Gross tons of coal mined	Total average No. of men employed	Tons of coal mined per man employed	Average No. of employed men underground	Tons of coal mined per man employed underground.
1906....	1,385,000	2,800	494	2,000	692
1907....	1,834,745	3,600	509	2,700	679
1908....	1,845,000	3,780	488	2,681	688
1909....	2,174,329	5,207	417	3,893	566
1910....	3,036,757	5,818	504	4,090	742
1911....	1,694,564	6,689	253	4,517	375
1912....	3,446,349	6,661	517	4,861	708
1913....	4,306,346	8,068	533	5,837	737
1914....	3,821,739	8,170	467	6,052	631
1915....	3,434,891	6,445	532	4,493	764
1916....	4,648,604	7,570	614	5,536	839
1917....	4,863,414	8,310	595	6,047	804
1918....	6,148,620	8,818	697	6,141	1,001
1919....	5,022,412	7,573	663	5,150	958
1920....	6,908,923	9,688	712	6,551	1,055
1921....	5,937,195	10,018	592	7,203	824
1922....	5,976,432	8,747	683	6,154	971
1923....	6,866,923	9,927	687	7,249	893
1924....	5,202,713	7,317	711	5,299	982
1925....	5,883,394	8,774	670	6,498	834
1926....	6,508,908	8,763	743	6,569	991
1927....	6,936,780	9,016	768	6,681	970
1928....	7,334,179	9,496	772	6,625	1,107
1929....	7,147,250	9,572	747	7,115	1,004
1930....	5,755,911	8,889	648	6,607	871
1931....	4,563,309	8,070	577	5,969	701
1932....	4,867,984	7,837	621	5,772	844
1933....	4,714,784	8,042	586	5,937	794
1934....	4,748,848	7,863	604	5,809	744
1935....	5,462,973	7,800	700	5,644	969
1936....	5,696,375	8,110	702	5,940	959
1937....	5,551,682	7,836	708	5,806	956
1938....	5,230,015	7,411	706	5,427	965
1939....	5,518,105	7,456	740	5,517	1,000
1940....	6,205,088	7,416	836	5,526	1,122
1941....	6,970,064	7,714	903	6,916	1,007
1942....	7,754,279	8,040	964	5,865	1,322
1943....	7,677,982	8,636	889	6,197	1,160*
1944....	7,427,433	8,375	887	6,867	1,135*
1945....	7,801,248	8,309	939	5,752	1,298*
1946....	8,824,455	8,583	1,028	6,897	1,187*
1947....	8,074,596	8,772	920	6,090	1,017*
1948....	8,111,013	8,865	915	5,702	946*
1949....	8,616,983	8,682	993	5,534	1,025*
1950....	8,118,206	7,999	1,015	4,990	1,006*
1951....	7,661,276	7,339	1,044	4,457	1,084*

* See Note over page

PER CAPITA PRODUCTION OF MINES IN THE DOMESTIC COAL FIELD

Year	Gross tons of coal mined	Total Average No. of men employed	Tons of coal mined per man employed	Average No. of men employed under-ground	Tons of coal mined per man employed underground
1910	878,011	2,307	380	1,676	524
1911	964,700	3,548	271	2,488	391
1912	1,341,389	2,980	450	2,283	587
1913	1,763,225	4,017	438	2,929	601
1914	1,697,401	4,219	402	3,190	532
1915	1,682,922	3,181	529	2,210	761
1916	2,172,801	4,132	525	3,137	692
1917	2,537,829	4,701	539	3,489	727
1918	3,035,061	4,896	619	3,420	887
1919	2,611,009	4,226	617	2,953	884
1920	3,359,309	5,173	647	3,723	902
1921	2,943,141	5,601	525	4,256	691
1922	3,086,669	4,981	620	3,752	823
1923	3,161,741	4,969	636	3,765	812
1924	3,096,660	4,543	681	3,447	898
1925	3,156,359	4,874	647	3,750	808
1926	3,160,029	4,798	658	3,714	816
1927	3,357,171	4,663	720	3,603	891
1928	3,378,200	4,810	702	3,700	873
1929	3,385,749	4,944	685	3,813	880
1930	2,874,090	4,822	596	3,756	765
1931	2,245,563	4,400	501	3,419	628
1932	2,574,785	4,548	566	3,539	728
1933	2,434,047	4,480	543	3,487	698
1934	2,295,566	4,289	535	3,370	644
1935 Stp. Pit	130,084	96	1,355	...	...
B. Ground	2,517,828	3,927	658	3,058	823
1936 Stp. Pit	80,111	107	749	...	...
B. Ground	2,761,120	4,112	671	3,243	851
1937 Stp. Pit	80,116	79	1,014	...	...
B. Ground	2,551,034	3,148	810	3,162	832
1938 Stp. Pit	72,829	74	945	...	...
B. Ground	2,380,434	3,573	667	2,846	801*
1939 Stp. Pit	76,394	73	1,048	...	...
B. Ground	2,372,805	3,636	653	2,900	818*
1940 Stp. Pit	74,021	71	1,042	...	...
B. Ground	2,463,184	3,556	692	2,844	866*
1941 Stp. Pit	88,142	63	1,399	...	...
B. Ground	2,625,112	3,427	766	2,745	956*
1942 Stp. Pit	119,615	67	1,785	...	...
B. Ground	3,093,498	3,485	888	2,777	1,114*
1943 Stp. Pit	137,307	78	1,760	...	...
B. Ground	3,278,730	4,016	816	3,133	1,046*
1944 Stp. Pit	366,862	263	1,395	...	...
B. Ground	2,779,939	3,565	882	2,826	984*

* See note over page

NOTE: Alberta Coals have been re-classified and Domestic Coal is now included in the new headings "Bituminous" and "Sub-Bituminous".

PER CAPITA PRODUCTION OF MINES IN THE SUB-BITUMINOUS COAL FIELD

Year	Gross tons of coal mined	Total average No. of men employed	Tons of coal mined per man employed	Average No. of men employed underground.	Tons of coal mined per man employed underground.
1922-Stp. Pit..	367,514	217	1,693	...	...
B. Ground.	267,559	403	664	277	966
1923-Stp. Pit..	288,467	190	1,513	...	...
B. Ground.	174,994	354	494	260	673
1924-Stp. Pit..	369,724	211	1,752	...	...
B. Ground.	222,222	393	565	278	799
1925-Stp. Pit..	335,993	162	2,074	...	...
B. Ground.	245,842	461	533	326	754
1926-Stp. Pit..	258,964	147	1,761	...	...
B. Ground.	231,407	443	545	305	758
1927-Stp. Pit..	304,584	193	1,583	...	...
B. Ground.	290,606	478	608	321	905
1928-Stp. Pit..	394,682	179	2,205	...	...
B. Ground.	345,810	645	536	457	756
1929-Stp. Pit..	319,764	163	1,962	...	...
B. Ground.	348,344	585	595	402	866
1930-Stp. Pit..	304,144	157	1,937	...	...
B. Ground.	299,187	569	526	390	767
1931-Stp. Pit..	280,251	161	1,803	...	...
B. Ground.	191,138	486	393	336	569
1932-Stp. Pit..	348,266	177	1,968	...	...
B. Ground.	211,213	491	430	341	619
1933-Stp. Pit..	309,365	170	1,820	...	...
B.Ground .	244,776	516	474	370	661
1934-Stp. Pit..	302,054	158	1,912	...	...
B. Ground.	235,488	482	489	326	722
1935-Stp. Pit..	287,970	180	1,600	...	...
B. Ground.	278,466	501	830	337	826
1936-Stp. Pit..	263,899	175	1,508	...	...
B. Ground.	302,587	532	569	360	841
1937-Stp. Pit..	229,747	149	1,542	...	...
B. Ground.	276,782	504	549	348	795
1938-Stp. Pit..	227,317	148	1,536	...	...
B. Ground.	261,595	633	772	327	800*
1939-Stp. Pit..	246,459	142	1,735	...	...
B. Ground.	265,646	494	538	320	830*
1940-Stp. Pit..	318,425	241	1,321	...	...
B. Ground.	280,261	393	713	328	854*
1941-Stp. Pit..	320,801	272	1,179	...	...
B. Ground.	264,652	284	689	248	1,069*
1942-Stp. Pit..	332,748	191	1,742	...	...
B. Ground.	400,799	521	769	342	1,172*
1943-Stp. Pit..	351,890	360	967	...	...
B. Ground.	440,062	442	996	399	1,102*
1944-Stp. Pit..	280,420	161	1,742	...	...
B. Ground.	449,007	589	973	386	1,163*
1945-Stp. Pit..	833,129	330	2,525	...	...
B. Ground.	2,367,356	2,915	812	2,379	991'
1946-Stp. Pit..	831,505	316	2,631	...	...
B. Ground.	2,603,354	3,066	849	2,513	1,036
1947-Stp. Pit..	709,704	339	2,094	...	...
B. Ground.	2,527,516	3,183	794	2,859	884
1948-Stp. Pit..	1,007,042	385	2,616	...	...
B. Ground.	2,183,175	3,010	725	2,444	893
1949-Stp. Pit..	1,027,493	432	2,378	...	...
B. Ground.	2,094,163	2,819	743	2,297	912
1950-Stp. Pit..	1,233,234	466	2,646	...	...
B. Ground.	2,091,952	2,505	835	2,042	1,024
1951-Stp. Pit..	1,120,858	447	2,507	...	...
B. Ground.	1,881,129	2,204	854	1,796	1,047

* See Note

BITUMINOUS COAL FIELD

Year	Gross tons of coal mined	Total average No. of men employed	Tons of coal mined per man employed	Average No. of men employed underground	Tons of coal mined per man employed underground
1910.....	1,896,961	2,981	636	2,076	914
1911.....	649,745	2,645	246	1,820	357
1912.....	1,926,371	3,243	594	2,353	818
1913.....	2,374,401	3,562	666	2,645	897
1914.....	1,953,367	3,529	553	2,632	742
1915.....	1,626,237	2,921	557	2,103	773
1916.....	2,335,259	3,142	743	2,258	1,034
1917.....	2,206,868	3,335	661	2,429	909
1918.....	2,982,334	3,636	820	2,597	1,109
1919.....	2,325,787	3,118	745	2,100	1,108
1920.....	3,419,021	4,228	809	2,711	1,202
1921.....	2,897,380	4,133	701	2,820	1,026
1922.....	2,214,273	3,034	730	2,084	1,062
1923.....	3,241,614	4,345	746	3,215	1,008
1924.....	1,515,107	2,171	698	1,574	966
1925.....	2,145,200	3,277	654	2,422	885
1926.....	2,858,508	3,375	847	2,550	1,121
1927.....	2,984,419	3,682	810	2,757	1,082
1928.....	3,215,481	3,862	832	2,468	1,302
1929.....	3,093,393	3,880	797	2,898	1,077
1930.....	2,278,490	3,341	682	2,461	926
1931.....	1,846,357	3,023	611	2,214	834
1932.....	1,733,720	2,621	660	1,892	916
1933.....	1,726,596	2,876	600	2,080	830
1934.....	1,915,740	2,934	653	2,113	907
1935.....	2,248,625	3,096	726	2,248	1,000
1936.....	2,288,658	3,184	719	2,337	979
1937.....	2,414,003	3,156	765	2,295	1,052
1938.....	2,287,840	3,131	731	2,254	1,015
1939.....	2,556,801	3,111	822	2,297	1,113
1940.....	3,069,197	3,155	972	2,354	1,303
1941.....	3,671,357	3,568	1,029	2,659	1,381
1942.....	3,807,619	3,766	1,008	2,746	1,387
1943.....	3,469,993	3,740	927	2,665	1,302
1944 Stp. Pit..	119,092	35	3,403	...	...
B. Ground	3,432,113	3,762	935	2,655	1,293
1945 Stp. Pit..	491,736	209	2,364	...	...
B. Ground	4,109,027	4,825	852	3,373	1,218
1946 Stp. Pit.	991,335	332	2,986	...	...
B. Ground	4,398,261	4,869	903	3,384	1,300
1947 Stp. Pit..	1,170,875	405	2,891	...	...
B. Ground	3,666,501	4,845	757	3,231	1,135
1948 Stp. Pit..	1,709,039	552	3,096	...	...
B. Ground	3,211,757	4,918	653	3,258	986
1949 Stp. Pit.	1,914,463	630	3,039	...	...
B. Ground	3,580,864	4,801	746	3,237	1,106
1950 Stp. Pit..	1,865,120	588	3,172	...	...
B. Ground	2,927,900	4,440	659	2,948	993
1951 Stp. Pit..	1,708,256	634	2,691	...	...
B. Ground	2,951,033	4,054	728	2,661	1,109

ANTHRACITE COAL FIELD

1910.....	261,765	530	493	338	774
1911.....	80,119	500	160	209	383
1912.....	178,589	438	407	225	793
1913.....	168,720	489	345	263	641
1914.....	170,971	422	405	230	743
1915.....	125,732	343	366	180	698
1916.....	140,544	296	474	141	996
1917.....	118,717	284	418	129	920
1918.....	131,225	286	458	124	1,058
1919.....	85,616	229	374	95	901
1920.....	130,594	287	455	117	1,116
1921.....	96,674	284	341	127	761
1922.....	40,417	112	361	41	986
1923.....	107	69	1	9	12

NOTE: The table showing the number of men employed in the Anthracite Coal Field includes employees at the briquetting plant. There has been no Anthracite Coal produced since 1923.

* Calculating the total per capita production for men employed underground, the tonnage mined from stripping pits was deducted and only the tonnage produced from the mines was used.

It will also be noted that the tonnage used in the above and following tables does not include tonnage extracted under Permit.

NOTE: Previous to 1944 there was no coal mined in the Bituminous Field by Stripping methods.

PER CAPITA PRODUCTION OF MINES BY AREAS:

BITUMINOUS COAL FIELD

Area	Strip and Underground Mining					Strip Mining					Underground Mining				
	Gross tons of coal mined	Total Average No. of men employed	Tons of coal mined per man employed	Total No. of Man-shifts	Tons of coal mined Per Eight-hour man-shift	Gross tons of coal mined	Total Average No. of men employed	Tons of coal mined per man employed	Total No. of Man-shifts	Tons of coal mined per Eight-hour man-shift	Gross tons of coal mined	Total Average No. of men employed	Tons of coal mined per man employed	Total No. of Man-shifts	Tons of coal mined per Eight-hour man-shift
Group 1:															
Cascade	337847	405	834	95404	3.54	...	...	...	...	...	337847	405	834	95404	3.54
Nordegg	9934	80	124	19330	.52	...	...	...	...	...	9934	80	124	19330	.52
Group 2:															
Crowsnest	2391251	2178	1098	523409	4.57	869519	323	2692	80907	10.75	1521732	1855	820	442502	3.44
Mountain Park	770301	495	1556	123651	6.23	471888	54	8739	15805	29.86	298413	441	677	107846	2.77
Group 3:															
Coalspur	751909	748	1005	189267	3.97	365793	252	1452	73443	4.98	386116	496	778	115824	3.33
Halcourt	936	5	187	467	2.00	515	3	172	108	4.78	421	2	211	359	1.17
Lethbridge	335271	642	522	115873	2.89	443	1	443	22	2.01	334828	641	522	115851	2.89
Pekisko	5495	7	786	1623	3.39	...	...	...	...	...	5495	7	786	1623	3.39
Pincher	5	1	5	36	.14	...	...	...	...	...	5	1	5	36	.14
Prairie Creek	1126	3	375	592	1.90	98	1	98	39	2.51	1028	2	514	553	1.86
Red Deer	71	2	36	126	.56	...	...	...	...	...	71	2	36	126	.56
Saunders	55143	122	452	27487	2.01	...	...	...	...	...	55143	122	452	27487	2.01
Total	4659289	4688	994	1097265	4.26	1708256	634	2691	170324	10.03	2951033	4054	728	926941	3.16

SUB-BITUMINOUS COAL FIELD

Group 4:																
Ardley	53091	24	2212	5481	9.69	52219	20	2611	5066	10.31	872	4	218	415	2.10
Big Valley	17568	14	1255	2368	7.42	16977	12	1415	2065	8.22	591	2	296	303	1.95
Brooks	75648	43	1759	9295	8.14	75643	42	1801	9294	8.14	5	1	5	1	5.00
Carbon	56098	86	652	15300	3.67	12932	13	995	2008	6.44	43166	73	591	13292	3.25
Champion	7164	14	512	1992	3.59	...	...	...	...	...	7164	14	512	1992	3.59
Drumheller	1566102	1722	909	378618	4.14	1471	3	490	156	9.43	1564631	1719	910	378462	4.13
Edmonton	356770	345	1034	71937	4.82	144033	55	2619	14129	10.19	212737	290	733	57808	3.68
Gleichen	13926	36	387	6578	2.12	...	...	...	...	...	13926	36	387	6578	2.12
Milk River	408	1	408	118	3.46	...	...	...	...	...	408	1	408	118	3.46
Pembina	164682	72	2287	16602	9.92	164240	71	2313	16431	9.99	442	1	442	171	2.58
Taber	121405	46	2639	11743	10.34	119190	41	2907	10629	11.21	2215	5	443	1114	1.99
Wetaskiwin	872	2	436	395	2.21	...	...	...	...	...	872	2	436	395	2.21
Whitecourt	820	1	820	111	7.39	820	1	820	111	7.39	...	...	...	...	...
Group 5:															
Camrose	60929	40	1523	9899	6.16	60929	40	1523	9899	6.16	...	...	...	...	...
Castor	273085	102	2667	30296	9.01	246958	66	3742	23767	10.39	26127	36	726	6529	4.00
Pakowki	243	1	243	108	2.25	...	...	...	...	...	243	1	243	108	2.25
Redcliff	5458	13	420	2574	2.12	...	...	...	...	...	5458	13	420	2574	2.12
Rochester	193	1	193	216	.85	193	1	193	216	.85	...	...	...	...	...
Sheerness	56004	19	2942	4737	11.82	55828	18	3102	4647	12.01	176	1	176	90	1.95
Tofield	158971	60	2649	15490	10.26	156875	55	2852	15081	10.40	2096	5	419	409	5.12
Westlock	12550	9	1394	1938	6.48	12550	9	1394	1938	6.48	...	...	...	...	...
Total	3001987	2651	1132	585796	5.11	1120858	447	2507	115437	9.72	1881129	2204	854	470359	4.00

SUMMARY

Bituminous	4659289	4688	994	1097265	4.26	1708256	634	2691	170324	10.03	2951033	4054	728	926941	3.16
Sub-bituminous	3001987	2651	1132	585796	5.11	1120858	447	2507	115437	9.72	1881129	2204	854	470359	4.00
Total	7661276	7339	1044	1683061	4.55	2829114	1081	2617	285761	9.90	4832162	6258	772	1397300	3.46

Number of days on which Coal was drawn in the BITUMINOUS FIELD by areas during each month:

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Group 1:													
Cascade	18.5	19.5	18.7	17.0	15.0	10.5	21.0	21.3	19.3	20.0	21.7	19.3	221.8
Nordegg	...	...	25.0	25.5	10.0	3.0	26.0	24.0	21.0	3.0	26.0	11.0	174.5
Group 2:													
Crowsnest	22.4	20.8	18.1	21.9	21.6	21.7	21.3	23.4	18.6	20.7	22.0	18.7	251.2
Mtn. Park	22.0	19.0	23.0	21.5	21.0	21.5	23.0	21.5	20.5	22.5	23.0	21.5	260.0
Group 3:													
Coalspur	22.2	16.4	17.3	17.5	19.2	18.7	15.6	22.6	20.8	22.3	24.0	20.2	236.8
Halcourt	20.0	11.0	5.0	...	22.0	20.2	20.0	10.0	20.0	20.0	22.0	19.3	189.5
Lethbridge	13.0	16.0	9.4	9.0	9.7	10.0	14.8	15.6	17.2	20.6	21.4	17.8	174.5
Pekisko	21.0	19.0	14.0	10.0	...	...	...	7.0	20.0	23.0	20.0	19.0	153.0
Pincher	2.0	...	...	...	...	...	...	...	...	...	...	...	2.0
Pr. Creek	25.5	16.5	25.0	17.0	25.0	20.0	18.0	12.0	18.0	22.0	20.0	14.0	233.0
Red Deer	...	...	...	...	...	...	...	...	...	...	26.0	16.0	42.0
Saunders	21.5	17.0	15.5	18.0	18.0	20.0	17.5	21.5	19.0	20.0	21.5	18.0	227.5
Total:	188.1	155.2	171.0	157.4	161.5	145.6	177.2	178.9	194.4	194.1	247.6	194.8	2165.8
													180.5

Number of days on which Coal was drawn in the SUB-BITUMINOUS FIELD by areas during each month:

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Group 4:													
Ardley	21.7	21.0	10.0	6.5	16.0	13.0	25.0	15.0	18.6	23.6	25.7	23.2	219.3
Big Valley	19.6	16.5	15.0	10.0	5.0	15.0	...	4.0	14.5	16.0	18.5	24.0	158.1
Brooks	23.0	12.0	2.0	...	...	1.0	...	...	8.0	23.5	23.5	19.0	112.0
Carbon	15.9	13.1	12.6	7.8	6.6	11.1	10.4	11.3	15.9	19.4	21.2	16.4	161.7
Champion	20.0	18.0	12.2	11.0	7.3	12.3	13.0	18.7	17.3	15.7	16.0	15.3	176.8
Drumheller	20.1	17.5	13.2	13.7	13.1	15.2	11.5	19.2	18.3	20.3	20.5	17.9	200.5
Edmonton	19.5	15.3	16.8	13.3	12.9	13.3	12.4	17.8	14.8	19.0	20.5	18.8	194.4
Gleichen	20.0	19.0	15.0	7.0	12.8	13.0	15.0	19.0	18.0	21.0	22.5	17.8	200.1
Milk River	20.0	16.0	18.0	6.0	...	10.0	5.0	...	10.0	...	19.0	8.0	112.0
Pembina	18.6	15.0	12.0	11.7	7.8	6.0	7.0	9.8	18.8	21.2	21.0	21.3	170.2
Taber	12.2	8.0	9.4	12.0	10.0	...	...	1.0	8.0	18.0	20.2	15.8	114.6
Wetaskiwin	20.0	20.0	15.0	...	...	...	...	11.0	18.0	18.0	20.0	16.0	138.0
Whitecourt	22.0	16.0	...	...	...	...	...	...	...	...	26.0	24.0	88.0
Group 5:													
Camrose	19.8	17.2	17.0	11.6	10.0	7.0	5.0	10.0	18.0	19.7	21.8	19.0	176.1
Castor	15.4	12.6	10.2	10.4	11.8	12.6	11.5	8.1	16.7	19.1	21.0	16.2	165.6
Pakowki	8.0	5.0	3.0	...	...	...	...	4.0	12.0	23.0	22.0	17.0	94.0
Redcliff	12.0	3.0	2.0	...	...	...	2.0	18.0	17.0	25.0	26.0	14.0	119.0
Rochester	...	...	...	24.0	...	...	...	...	...	...	...	...	24.0
Sheerness	18.0	20.5	9.3	12.0	7.0	10.0	6.0	11.0	16.7	17.7	20.7	20.0	168.9
Tofield	16.0	15.7	12.6	12.2	7.2	7.8	10.0	10.8	17.6	18.4	19.6	18.6	166.5
Westlock	22.3	20.3	17.6	4.5	2.0	6.3	9.0	3.0	10.3	17.0	25.0	21.7	159.0
Total:	364.1	301.7	222.9	173.7	129.5	153.6	142.8	191.7	288.5	355.6	430.7	364.0	3118.8
													148.5
Bituminous	188.1	155.2	171.0	157.4	161.5	145.6	177.2	178.9	194.4	194.1	247.6	194.8	2165.8
S.Bituminous	364.1	301.7	222.9	173.7	129.5	153.6	142.8	191.7	288.5	355.6	430.7	364.0	3118.8
Total:	552.2	456.9	393.9	331.1	291.0	299.2	320.0	370.6	482.9	549.7	678.3	558.8	5284.6
													164.5

Total number of shifts worked above and below ground by areas during each month, for the six months ending June 30th, 1951

BITUMINOUS FIELD

Areas	January		February		March		April		May		June		Total January to June	
	Above Grd.	Below Grd.	Above Grd.	Below Grd.	Above Grd.	Below Grd.	Above Grd.	Below Grd.	Above Grd.	Below Grd.	Above Grd.	Below Grd.	Above Grd.	Below Grd.
Group 1:														
Cascade	4495	5671	3619	4653	3402	4343	2917	3977	3019	3900	5509	3850	22961	26394
Nordegg	...	...	...	...	1542	702	1607	802	774	433	747	445	4670	2382
Group 2:														
Crowsnest	20476	26010	19396	23390	18234	21350	20462	25731	19817	24915	19537	24134	117922	145530
Mtn. Park	6401	4635	5278	3903	6202	4582	5638	5081	5263	4820	5230	4768	34012	27789
Group 3:														
Coalspur	8534	8036	11899	7071	9736	7194	6392	6050	10276	6155	7289	5710	54126	40216
Halcourt	...	60	...	33	...	15	...	...	...	22	...	20	...	150
Lethbridge	2540	6047	2967	8406	2004	4668	1966	3689	2249	4717	2474	5457	14200	32984
Pekisko	42	126	38	114	28	84	20	50	...	...	...	...	128	374
Pincher	...	36	...	...	...	...	...	...	...	...	...	...	...	36
Pr. Creek	30	52	9	48	...	50	...	34	...	50	...	40	39	274
Red Deer	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Saunders	1052	2727	451	1290	777	1908	357	630	385	760	420	664	3442	7979
Total:	43570	53400	43657	48908	41925	44896	39359	46044	41783	45772	41206	45088	251500	284108

Total number of shifts worked above and below ground by areas during each month for the six months ending December 31st, 1951

BITUMINOUS FIELD

Areas	July		August		September		October		November		December		Total July To Dec.		Total for year 1951	
	Above Grd.	Below Grd.	Above Grd.	Below Grd.	Above Grd.	Below Grd.	Above Grd.	Below Grd.	Above Grd.	Below Grd.	Above Grd.	Below Grd.	Above Grd.	Below Grd.	Above Grd.	Below Grd.
Group 1:																
Cascade	2423	2515	3695	4971	3104	4543	3416	5191	3408	5273	3062	4448	19108	26941	42069	53335
Nordegg	487	449	900	561	681	540	875	685	1691	1417	1611	2381	6245	6033	10915	8415
Group 2:																
Crowsnest	19064	22339	21992	23727	19104	20037	20519	23994	21021	26051	19398	22711	121098	138859	239020	284389
Mtn. Park	5752	4953	5982	5015	5624	3980	5791	4504	5964	4463	5593	4229	34706	27144	68718	54933
Group 3:																
Coalspur	9939	5115	9768	6183	9547	5846	9747	6615	10278	6104	9992	5791	59271	35654	113397	75870
Halcourt	...	40	...	20	...	40	...	40	...	29	108	40	108	209	108	359
Lethbridge	2745	6945	2873	6497	2921	8005	3531	9302	3392	10281	3156	9041	18618	50071	32818	83055
Pekisko	...	...	14	42	100	160	92	207	60	180	76	190	342	779	470	1153
Pincher	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	36
Mr. Creek	...	36	...	24	...	36	...	88	...	40	...	55	...	279	39	553
Red Deer	...	...	...	...	...	...	...	...	26	52	16	32	42	84	42	84
Saunders	713	1374	827	1926	800	1713	1020	2035	963	2171	756	1768	5079	10987	8521	18966
Total:	41123	43766	46051	48966	41881	44900	44991	52661	46803	56061	43768	50686	264617	297040	516117	581148

Total number of shifts worked above and below ground by areas during each month for the six months ending June 30th, 1951

SUB-BITUMINOUS FIELD

Areas	January		February		March		April		May		June		Total January to June	
	Above Grd.	Below Grd.	Above Grd.	Below Grd.	Above Grd.	Below Grd.	Above Grd.	Below Grd.	Above Grd.	Below Grd.	Above Grd.	Below Grd.	Above Grd.	Below Grd.
Group 4:														
Ardley	622	76	578	30	225	49	32	4	53	...	115	22	1625	181
Big Valley	689	100	188	...	115	105	130	...	56	...	34	...	1212	205
Brooks	1501	...	969	...	546	...	...	...	...	...	...	1	3018	1
Carbon	666	1483	434	1078	237	757	149	385	137	352	199	491	1822	4546
Champion	22	191	18	159	...	120	...	127	...	125	8	112	48	834
Drumheller	7446	31214	6819	26990	5616	19154	5761	21092	6156	21649	6121	22801	37919	142900
Edmonton	3249	8119	2709	5050	2291	3423	1094	1379	1113	1601	1222	1603	11678	21175
Gleichen	53	992	35	783	28	625	10	83	42	275	38	261	206	3019
Milk River	...	20	...	16	...	18	...	6	...	...	...	10	...	70
Pembina	1779	100	1345	64	970	7	444	...	914	...	1026	...	6478	171
Taber	665	200	...	149	929	110	...	81	...	30	...	...	1594	570
Wetaskiwin	...	80	...	60	...	45	...	...	...	...	...	...	...	185
Whitecourt	22	...	16	...	...	...	...	...	...	...	...	...	38	...
Group 5:														
Camrose	1091	...	865	...	774	...	379	...	744	...	756	...	4609	...
Castor	1797	1080	618	611	589	372	367	119	671	16	942	60	4984	2258
Pakowki	...	8	...	5	...	3	...	...	...	...	...	...	...	16
Redcliff	179	106	131	36	72	30	...	...	...	...	...	...	382	172
Rochester	...	...	...	...	...	...	216	...	...	...	...	...	216	...
Sheerness	484	8	453	...	376	4	329	8	268	...	466	...	2376	20
Tofield	1466	38	1171	34	1414	34	924	28	888	27	858	26	6721	187
Westlock	348	...	250	...	189	...	58	...	26	...	38	...	909	...
Total:	22079	43815	16599	35065	14371	24856	9893	23312	11068	24075	11823	25387	85833	176510

SUMMARY

Bituminous	43570	53400	43657	48908	41925	44896	39359	46044	41783	45772	41206	45088	251500	284108
S. Bituminous	22079	43815	16599	35065	14371	24856	9893	23312	11068	24075	11823	25387	85833	176510
Total:	65649	97215	60256	83973	56296	69752	49252	69356	52851	69847	53029	70475	337333	460618

Total number of shifts worked above and below ground by areas during each month for the six months ending December 31st, 1951

SUB-BITUMINOUS FIELD

Areas	July		August		September		October		November		December		Total July To Dec.		Total 1951	
	Above Grd.	Below Grd.	Above Grd.	Below Grd.	Above Grd.	Below Grd.	Above Grd.	Below Grd.	Above Grd.	Below Grd.	Above Grd.	Below Grd.	Above Grd.	Below Grd.	Above Grd.	Below Grd.
Group 4:																
Ardley	77	...	91	16	313	38	937	54	1458	68	565	58	3441	234	5066	415
Big Valley	...	...	...	8	237	30	205	24	228	36	183	...	853	98	2065	303
Brooks	...	...	...	...	1296	...	1720	...	1775	...	1487	...	6278	...	9294	1
Carbon	189	394	417	579	431	813	663	1238	834	1527	524	1323	3058	5874	4880	10420
Champion	...	128	...	122	14	109	36	226	41	230	29	175	120	990	168	1824
Drumheller	5535	16303	7177	28054	6564	25250	7498	28185	7713	29528	7563	28429	42050	155749	79969	298649
Edmonton	1234	1326	1495	2304	1850	3230	3114	5278	3953	6758	3102	5440	14748	24336	26426	45511
Gleichen	20	215	46	435	41	436	69	521	68	841	57	604	301	3052	507	6071
Milk River	...	5	...	...	...	10	...	...	...	25	...	8	...	48	...	118
Pembina	868	...	854	...	1015	...	2143	...	2603	...	2470	...	9953	...	16431	171
Taber	...	...	2323	...	1516	22	1693	20	1937	198	1696	174	9165	414	10759	984
Wetaskiwin	...	...	...	22	...	54	...	54	...	37	...	43	...	210	...	395
Whitecourt	...	...	...	...	...	...	...	...	26	...	47	...	73	...	111	...
Group 5:																
Camrose	730	...	785	...	494	...	915	...	1136	...	1230	...	5290	...	9899	...
Castor	1325	121	1299	235	9127	575	2264	891	1789	1180	3373	875	19177	3877	24161	6135
Pakowki	...	...	...	12	...	12	...	23	...	28	...	17	...	92	...	108
Redcliff	63	30	93	112	88	119	225	249	399	317	214	111	1082	938	1464	1110
Rochester	...	...	...	...	...	...	...	...	...	...	...	...	...	...	216	...
Shearness	161	...	258	...	377	...	497	20	530	30	448	20	2271	70	4647	90
Tofield	834	24	1064	33	1184	38	1671	24	1852	44	1770	44	8375	207	15096	394
Westlock	26	...	27	...	114	...	176	...	388	...	298	...	1029	...	1938	...
Total:	11062	18546	15929	31932	24661	30736	23826	36807	26730	40847	25056	37321	127264	196189	213097	372699

SUMMARY

Bituminous	41123	43766	46051	48966	41881	44900	44991	52661	46803	56061	43768	50686	264617	297040	516117	581148
S. Bituminous	11062	18546	15929	31932	24661	30736	23826	36807	26730	40847	25056	37321	127264	196189	213097	372699
Total:	52185	62312	61980	80898	66542	75636	68817	89468	73533	96908	68824	88007	391881	493229	729214	953847

PRODUCTION OF COAL PER EIGHT-HOUR MAN-SHIFT

Year	Gross tons of coal mined	Total No. of Eight-hour Man-shifts	Average No. of Tons of Coal mined per Eight-hour Shift
1927.....	6,936,780	2,196,712	3.157
1928.....	7,334,179	2,282,098	3.213
1929.....	7,147,250	2,261,064	3.161
1930.....	5,755,911	1,823,826	3.155
1931.....	4,563,309	1,396,696	3.267
1932.....	4,867,984	1,475,813	3.299
1933.....	4,714,784	1,440,985	3.271
1934.....	4,748,848	1,342,086	3.538
1935.....	5,462,973	1,614,032	3.384
1936.....	5,696,375	1,696,998	3.356
1937.....	5,551,682	1,620,003	3.426
1938.....	5,230,015	1,498,855	3.489
1939.....	5,518,105	1,549,042	3.562
1940.....	6,205,088	1,673,948	3.706
1941.....	6,970,064	1,877,968	3.711
1942.....	7,754,279	2,229,655	3.477
1943.....	7,677,982	2,200,426	3.489
1944.....	7,427,433	2,034,155	3.651
1945.....	7,801,248	1,990,452	3.919
1946.....	8,824,455	2,105,511	4.191
1947.....	8,074,596	1,998,002	4.041
1948.....	8,111,013	1,894,837	4.280
1949.....	8,616,983	1,910,922	4.510
1950.....	8,118,206	1,735,316	4.678
1951.....	7,661,276	1,683,061	4.552

AMOUNT OF MINE TIMBER USED DURING THE YEAR

BITUMINOUS COAL FIELD

Area:	Timber, lineal feet	Lumber B.M. feet	Lagging, lineal feet	Ties, lineal feet	Sprags, lineal feet
Group 1:					
Cascade	554,741	50,400	6,643	42,295	...
Nordegg	95,200	...	...	...	...
Group 2:					
Crowsnest	3,113,804	2,126,249	1,492,093	20,057	10,850
Mountain Park	485,700	278,109	65,024	14,910	1,498
Group 3:					
Coalspur	656,189	489,448	99,912	31,930	...
Halcourt	1,120	1,526	300	...	...
Lethbridge	1,383,251	67,562	500	56,593	480
Pekisko	8,705	32,000	...	...	...
Pincher	500	...	700	...	...
Prairie Creek	3,000	4,000	1,200	400	...
Red Deer	6,000	1,500	2,500	300	100
Saunders	217,579	18,000	34,176	17,488	...
Total	6,525,789	3,068,794	1,702,148	183,951	12,926

SUB-BITUMINOUS COAL FIELD

Group 4:					
Ardley	4,000	...	...	...	...
Big Valley	1,000	...	500	...	...
Brooks	7,500	...	...	...	...
Carbon	217,202	7,950	24,172	10,500	...
Champion	36,566	5,145	10,520	2,330	10
Drumheller	5,766,542	110,299	19,290	199,943	...
Edmonton	695,070	22,295	12,987	39,146	2,000
Gleichen	46,140	3,388	10,772	4,296	110
Pembina	4,000	6,250	750	2,000	...
Taber	20,200	63,000	3,100	3,200	...
Wetaskiwin	328,500	...	...	3,000	...
Group 5:					
Camrose	10,000	...	...	...	...
Castor	61,253	6,650	8,700	12,900	500
Pakowki	1,400	700	400	500	...
Redcliff	2,000	6,000	...	...	...
Sheerness	400	...	...	150	...
Tofield	3,720	14,500	...	7,630	...
Total	7,205,493	246,177	91,191	285,595	2,620

PARTICULARS OF LAMPS IN THE BITUMINOUS AND SUB-BITUMINOUS COAL FIELDS DURING THE YEARS 1950 AND 1951

BITUMINOUS

	1950	1951
Portable Electric Lamps, Edison Cap Type	3,958	4,087
Wolfe Flame Type	298	316
Total	4,256	4,403

SUB-BITUMINOUS

Portable Electric Lamps, Edison Cap Type	1,733	1,470
Koehler Flame Type	19	4
Wolfe Flame Type	203	171
Total	1,955	1,645

QUANTITY OF EXPLOSIVES USED IN POUNDS FOR BLASTING COAL:

BITUMINOUS COAL FIELD

Area	Name of Explosive					Total
	Pellet	Monobel	C.X.L.-ite	Cardox	Forcite	
Group 1:						
Cascade	...	64,900	...	...	...	64,900
Group 2:						
Crowsnest	...	63,445	...	8,264	...	71,709
Mountain Park	...	69,927	25,634	...	19,224	114,785
Group 3:						
Coalspur	23,750	144,085	...	...	13,500	181,335
Halcourt	100	125	...	...	...	225
Lethbridge	2,010	42,161	195	53,500	...	97,866
Pekisko	4,550	350	...	...	...	4,900
Pincher	...	100	...	...	...	100
Prairie Creek	...	352	...	...	...	352
Red Deer	...	130	...	...	...	130
Saunders	3,700	7,633	500	...	...	11,833
Total	34,110	393,208	26,329	61,764	32,724	548,135

SUB-BITUMINOUS COAL FIELD

Group 4:						
Ardley	19,550	3,250	...	...	...	22,800
Big Valley	150	...	...	...	...	150
Brooks	4,800	200	1,300	...	5,400	11,700
Carbon	12,307	852	...	...	...	13,159
Champion	20,000	...	...	...	...	20,000
Drumheller	48,884	87,937	677	230,110	...	367,608
Edmonton	2,600	27,635	...	...	100	30,335
Gleichen	4,800	500	...	...	...	5,300
Milk River	500	...	...	...	...	500
Pembina	1,675	2,260	...	...	...	3,935
Taber	510	25	...	...	...	535
Wetaskiwin	250	150	...	...	...	400
Whitecourt	...	100	...	...	...	100
Group 5:						
Camrose	...	2,650	...	...	50	2,700
Castor	6,460	3,927	...	...	...	10,387
Pakowki	...	45	...	...	...	45
Redcliff	400	200	...	...	...	600
Sheerness	757	23	...	...	...	780
Tofield	4,550	600	3,250	...	7,300	15,700
Westlock	100	400	...	...	...	500
Total	128,293	130,754	5,227	230,110	12,850	507,234

Number of tons of Coal produced per pound of Explosives used for blasting coal:

BITUMINOUS COAL FIELD

Area	Number of tons of coal mined	Number of Pounds of Explosives used	Tons of coal mined per pound of explosive used
Group 1:			
Cascade	337,847	64,900	5.21
Nordegg	9,934	...	...
Group 2:			
Crowsnest	2,391,251	71,709	33.35
Mountain Park	770,301	114,785	6.71
Group 3:			
Coalspur	751,909	181,335	4.15
Halcourt	936	225	4.16
Lethbridge	335,271	97,866	3.42
Pekisko	5,495	4,900	1.08
Pincher	5	100	.05
Prairie Creek	1,126	352	3.20
Red Deer	71	130	.55
Saunders	55,143	11,833	4.66
Total	4,659,289	548,135	4.85

SUB-BITUMINOUS COAL FIELD

Group 4:			
Ardley	53,091	22,800	2.33
Big Valley	17,568	150	117.12
Brooks	75,648	11,700	6.47
Carbon	56,098	13,159	4.26
Champion	7,164	20,000	.36
Drumheller	1,566,102	367,608	4.26
Edmonton	356,770	30,335	11.76
Gleichen	13,926	5,300	2.63
Milk River	408	500	.82
Pembina	164,682	3,935	41.83
Taber	121,405	535	225.99
Wetaskiwin	872	400	2.18
Whitecourt	820	100	8.20
Group 5:			
Camrose	60,929	2,700	22.56
Castor	273,085	10,387	26.29
Pakowki	243	45	5.40
Redcliff	5,458	600	9.09
Rochester	193	...	...
Sheerness	56,004	780	71.80
Tofield	158,971	15,700	10.13
Westlock	12,550	500	25.10
Total	3,001,987	507,234	5.92

Estimated number of shots fired for Blasting Coal:

BITUMINOUS COAL FIELD

Area	Electric Detonators	Electric Squibs	Cardox Heaters	Total
Group 1:				
Cascade	119,020	...	...	119,020
Group 2:				
Crowsnest	54,939	...	2,514	57,453
Mountain Park	118,689	...	...	118,689
Group 3:				
Coalspur	134,562	...	...	134,562
Halcourt	135	...	...	135
Lethbridge	59,813	1,775	12,652	74,240
Pekisko	3,000	...	...	3,000
Pincher	200	...	...	200
Prairie Creek	1,303	...	...	1,303
Red Deer	140	...	...	140
Saunders	17,568	...	...	17,568
Total	509,369	1,775	15,166	526,310

SUB-BITUMINOUS COAL FIELD

Group 4:				
Ardley	12,775	664	...	13,439
Big Valley	150	...	...	150
Brooks	11,410	...	...	11,410
Carbon	14,659	1,634	...	16,293
Champion	900	2,000	...	2,900
Drumheller	216,916	2,665	58,966	278,547
Edmonton	44,341	...	...	44,341
Gleichen	2,690	3,660	...	6,350
Milk River	1,000	...	...	1,000
Pembina	4,743	...	...	4,743
Taber	250	275	...	525
Wetaskiwin	150	250	...	400
Whitecourt	185	...	...	185
Group 5:				
Camrose	1,850	390	...	2,240
Castor	5,804	4,209	...	10,013
Pakowki	108	...	...	108
Redcliff	550	...	...	550
Sheerness	492	...	...	492
Tofield	11,200	...	...	11,200
Westlock	950	...	...	950
Total	331,123	15,747	58,966	405,836

Number of miss-fire shots recorded in Blasting Coal in the Province:

BITUMINOUS COAL FIELD

Area	Electric Detonators	Electric Squibs	Cardox Heaters	Total
Group 1:				
Cascade	5	...	...	5
Group 2:				
Crowsnest	3	...	...	3
Group 3:				
Coalspur	3	...	...	3
Lethbridge	3	1	160	164
Total	14	1	160	175

SUB-BITUMINOUS COAL FIELD

Group 4:				
Ardley	5	...	...	5
Brooks	3	...	...	3
Carbon	14	...	...	14
Champion	...	3	...	3
Drumheller	25	...	147	172
Edmonton	2	...	...	2
Gleichen	1	1	...	2
Pembina	5	...	...	5
Whitecourt	1	...	...	1
Group 5:				
Camrose	2	...	...	2
Castor	3	1	...	4
Total	61	5	147	213

Quantity of Explosives used in pounds for Blasting Rock in Coal-mines in the Province:

BITUMINOUS COAL FIELD

Area	Pellets	Monobel	C.X.L.-ite	Forcite	Total
Group 1:					
Cascade	...	...	3,500	...	3,500
Nordegg	...	...	95	...	95
Group 2:					
Crowsnest	...	...	10,824	214,323	225,147
Mountain Park	...	53,735	41,093	59,789	154,617
Group 3:					
Coalspur	...	...	...	226,100	226,100
Lethbridge	140	50	30	...	220
Prairie Creek	...	50	...	...	50
Red Deer	...	100	...	...	100
Saunders	...	50	...	...	50
Total	140	53,985	55,542	500,212	609,879

SUB-BITUMINOUS COAL FIELD

Group 4:					
Ardley	...	3	...	...	3
Brooks	...	...	...	25,343	25,343
Carbon	...	575	...	...	575
Champion	...	300	...	...	300
Drumheller	...	1,925	9,421	...	11,346
Edmonton	...	94	150	...	244
Gleichen	...	375	50	...	425
Pembina	...	500	...	100	600
Taber	...	10	...	...	10
Group 5:					
Castor	...	100	...	...	100
Total	...	3,882	9,621	25,443	38,946

Estimated number of shots fired for Blasting Rock in Coal-mines in the Province:

BITUMINOUS COAL FIELD

Area	Electric Detonators	Electric Squibs	Total
Group 1:			
Cascade	3,170	...	3,170
Nordegg	101	...	101
Group 2:			
Crowsnest	21,459	...	21,459
Mountain Park	11,663	...	11,663
Group 3:			
Coalspur	19,670	...	19,670
Lethbridge	272	20	292
Prairie Creek	75	...	75
Red Deer	107	...	107
Saunders	75	...	75
Total	56,592	20	56,612

SUB-BITUMINOUS COAL FIELD

Group 4:			
Ardley	5	...	5
Brooks	48	133	181
Carbon	765	...	765
Champion	225	...	225
Drumheller	26,395	...	26,395
Edmonton	423	...	423
Gleichen	565	200	765
Pembina	340	...	340
Taber	8	...	8
Group 5:			
Castor	300	...	300
Total	29,074	333	29,407

Number of miss-fire shots recorded in Blasting Rock in Coal-mines in the Province:

Carbon	2	...	2
Champion	2	...	2
Coalspur	1	...	1
Crowsnest	14	...	14
Gleichen	2	...	2
Pembina	4	...	4
Total	25	...	25

ELECTRICITY

Area	No. of Mines using Electricity	Horse-power of electrical apparatus in use		Total Horse-Power	Purchased Power
		Above Ground	Below Ground		
Ardley	1	4	...	4	...
Big Valley	1	46	...	46	34,500
Brooks	1	198	...	198	65,640
Camrose	1	103	...	103	65,700
Carbon	8	177	257	434	228,900
Cascade	2	3,450	280	3,730	6,419,587
Castor	8	1,120	124	1,244	.786,600
Coalspur	6	2,690	1,088	3,778	...
Crowsnest	7	21,325	4,131	25,456	27,475,282
Drumheller	17	4,379	7,730	12,109	9,024,862
Edmonton	15	1,177	1,506	2,683	827,430
Gleichen	3	12	37	49	34,859
Lethbridge	5	2,299	2,326	4,625	3,445,720
Mountain Park	2	3,489	375	3,864	...
Nordegg	1	3,752	202	3,954	1,920,200
Pekisko	1	75	6	81	...
Pembina	2	81	...	81	...
Prairie Creek	1	15	7	22	...
Redcliff	1	110	60	170	60,000
Saunders	1	154	148	302	359,400
Taber	5	149	68	217	47,530
Tofield	4	367	8	375	160,666
Total	93	45,172	18,353	63,525	50,956,876

COAL-CUTTING MACHINERY

Area	No. of machines operated by:			Tons of coal mined by:	
	Electricity	Compressed Air		Electricity	Compressed Air
		Picks	Mach.		
Brooks	...	...	1	...	1,419
Carbon	9	...	1	40,929	765
Cascade	4	55	2	56,560	30,525
Castor	6	...	2	15,188	2,333
Champion	...	...	1	...	556
Coalspur	...	...	49	...	391,625
Crowsnest	5	292	14	110,000	640,002
Drumheller	93	...	1	1,498,241	467
Edmonton	26	...	1	179,803	8,513
Gleichen	4	...	...	9,175	...
Lethbridge	28	...	1	330,325	699
Milk River	...	...	2	...	408
Pembina	...	...	2	...	442
Prairie Creek	1	...	...	915	...
Redcliff	2	...	...	5,458	...
Red Deer	...	...	4	...	71
Saunders	...	...	11	...	58,145
Taber	3	...	1	2,162	53
Tofield	2	...	...	2,102	...
Total	183	347	93	2,247,858	1,155,019

ACCIDENTS

Summary table showing Accidents occurring in the Mines from 1906 to 1951 inclusive, reportable under the Coal Mines Regulation Act.

Year	Output	Accidents			Tons of coal mined per accident		
		Fatal	Serious	Slight	Fatal	Serious	Slight
1906.....	1,385,000	10	11	20	138,500	126,909	60,250
1907.....	1,834,745	19	18	68	96,565	101,930	26,981
1908.....	1,845,000	11	38	13	167,727	48,552	141,923
1909.....	2,174,329	9	42	18	241,952	51,769	120,796
1910.....	3,036,757	61a	41	58	49,782	71,067	52,375
1911.....	1,694,564	7	32	45	242,080	52,955	37,658
1912.....	3,446,349	21	38	58	164,111	90,693	59,419
1913.....	4,306,346	28	60	83	152,789	71,772	51,883
1914.....	3,821,739	209b	44	50	18,286	86,857	76,434
1915.....	3,434,891	18	33	33	190,827	104,087	104,087
1916.....	4,648,604	20	51	34	232,430	91,149	136,723
1917.....	4,863,444	24	62	39	202,642	78,442	124,703
1918.....	6,148,620	22	60	77	279,483	102,477	79,860
1919.....	5,022,412	21	56	54	239,162	89,685	93,008
1920.....	6,908,923	29	53	38	238,733	130,371	181,814
1921.....	5,937,195	21	64	25	282,721	92,769	237,488
1922.....	5,976,432	35	38	35	170,755	157,274	170,755
1923.....	6,866,923	22	44	10	312,133	156,066	686,692
1924.....	5,203,713	21	42	40	247,796	123,898	130,093
1925.....	5,883,394	30	59	56	196,113	99,718	105,060
1926.....	6,508,908	39c	67	119	166,398	97,148	54,696
1927.....	6,936,780	26	76	115	266,799	91,273	60,320
1928.....	7,334,179	28	71	122	261,935	103,298	60,166
1929.....	7,147,250	31	69	98	230,556	103,583	72,931
1930.....	5,755,911	11	69	97	523,265	83,419	59,339
1931.....	4,563,309	16	75	73	285,207	60,844	62,511
1932.....	4,867,984	11	61	96	442,544	79,803	50,708
1933.....	4,714,784	6	60	109	785,797	78,580	43,255
1934.....	4,748,848	15	68	70	316,589	69,836	67,840
1935.....	5,462,973	35d	66	113	156,085	82,772	48,352
1936.....	5,696,375	11	79	101	517,852	72,106	56,400
1937.....	5,551,682	20	72	73	277,584	77,107	76,050
1938.....	5,230,015	21e	72	135	249,040	72,639	38,741
1939.....	5,518,105	17	57	180	324,594	96,809	30,657
1940.....	6,205,088	13	79	97	477,314	78,545	63,970
1941.....	6,970,064	48f	78	142	145,209	89,360	49,084
1942.....	7,754,279	17	92	148	456,134	84,285	52,393
1943.....	7,677,982	25g	73	152	307,119	105,178	50,513
1944.....	7,427,433	10	70	125	742,743	106,106	59,419
1945.....	7,801,248	23h	51	168	339,185	154,925	46,436
1946.....	8,824,455	12	76	128	735,371	116,111	68,941
1947.....	8,074,596	15	121	117	538,306	66,732	69,014
1948.....	8,111,013	13	91	93	623,924	89,132	87,215
1949.....	8,616,983	13	89	108	662,076	96,708	79,694
1950.....	8,118,206	20i	86	97	405,910	94,398	83,693
1951.....	7,661,276	9	85	53	851,253	90,133	144,552
Total.....	257,719,076	1143	2839	3783	225,476	90,778	68,126

a. Including thirty-one deaths caused by the Bellevue Explosion.
b. Including one hundred and eighty-nine deaths caused by the Hillcrest Explosion.
c. Including ten deaths caused by the McGillivray Creek Coal & Coke Co. Ltd. Explosion and two deaths caused by explosion at the Hillcrest Collieries Ltd. at Hillcrest.
d. Including sixteen deaths caused by the explosion at Lethbridge Colls. Ltd. at Coalhurst.
e. Including five deaths caused by the explosion at Hinton Collieries Ltd.
f. Including four deaths caused by an explosion at North American Colls. Ltd. Western Crown Mine, and twenty-nine deaths caused by an explosion at Brazeau Colls. Ltd., Nordegg.
g. Including four deaths caused by an explosion at the Kerralta Coal Co. Ltd., Lethbridge.
h. Including seven deaths caused by an explosion at Luscar Coals Ltd., Luscar.
i. Including five deaths caused by inundation of water at the Cadomin Coal Co. Ltd., Cadomin, and two deaths caused by "bump" at the McGillivray Creek Coal and Coke Co. Ltd., Coleman.

ACCIDENTS DURING 1951, CLASSIFIED ACCORDING TO THE COAL FIELDS IN WHICH THEY OCCURRED

Field	Output	Accidents			Tons of coal mined per accident		
		Fatal	Serious	Slight	Fatal	Serious	Slight
Bituminous.....	4,659,289	7	54	33	665,613	86,283	141,191
Sub-bituminous.....	3,001,987	2	31	20	1,500,994	96,838	150,099
Total.....	7,661,276	9	85	53	851,253	90,133	144,552

COMPARISON OF PROTECTIVE CLOTHING USED FOR THE YEARS 1949, 1950 AND 1951

	1949	1950	1951
Hard Hats.....	5,980	5,782	4,668
Safety Shoes, pairs.....	3,905	3,755	3,517
Goggles, pairs.....	757	719	552
Knee Pads, pairs.....	401	374	254

Comparison of Accidents per 1,000,000 tons and per 1,000 men employed, 1915-1951.

Year	Tonnage	Total No. of men employed	Fatal Accidents			Serious Accidents			Slight Accidents			Total		
			No.	Per 1,000,000 tons	Per 1,000 men employed	No.	Per 1,000,000 tons.	Per 1,000 men employed	No.	Per 1,000,000 tons.	Per 1,000 men employed	No.	Per 1,000,000 tons.	Per 1,000 men employed
1915	3,434,891	6,445	18	5.24	2.79	33	9.63	5.12	33	9.63	5.12	84	24.45	13.03
1916	4,538,604	7,570	20	4.31	2.64	51	10.99	6.74	34	7.33	4.49	105	22.61	13.87
1917	4,863,414	8,310	24	4.93	2.88	62	12.75	7.46	39	8.02	4.69	125	25.91	15.04
1918	6,148,620	8,818	22	3.57	2.51	60	9.95	6.84	77	12.52	7.78	159	25.85	18.12
1919	5,022,412	7,573	21	4.18	2.78	56	11.15	7.39	54	10.75	7.13	131	26.28	17.30
1920	6,908,923	9,688	29	4.20	2.99	53	7.81	6.10	38	5.50	4.37	120	17.37	13.81
1921	5,927,195	10,018	21	3.54	2.10	64	10.78	6.39	25	4.23	2.50	110	18.53	10.99
1922	5,976,432	8,747	35	5.86	4.09	38	6.36	4.45	35	5.86	4.09	108	18.07	12.64
1923	6,866,923	9,927	22	3.19	2.21	44	6.39	4.43	10	1.45	1.00	76	11.07	7.65
1924	5,203,713	7,317	21	4.03	2.86	42	8.07	5.74	40	7.68	5.47	103	19.79	14.35
1925	5,883,394	8,774	30	5.10	3.40	59	10.03	3.42	56	9.52	6.38	145	24.65	16.53
1926	6,508,908	8,763	39c	5.99	4.99	67	10.29	7.65	119	10.33	13.58	225	34.57	25.68
1927	6,936,780	9,016	26	2.88	2.88	76	10.96	8.43	115	16.50	12.71	217	31.28	24.06
1928	7,334,179	9,496	28	2.96	2.96	71	9.68	7.48	122	13.63	12.85	221	30.12	23.27
1929	7,147,250	9,572	31	3.24	3.24	69	9.65	7.21	98	12.71	10.24	198	27.70	20.30
1930	5,755,911	8,889	11	1.91	1.24	69	11.99	7.76	97	17.20	10.90	177	30.75	19.91
1931	4,563,309	8,070	16	3.51	1.98	75	16.44	9.27	73	16.00	9.04	164	35.92	20.32
1932	4,867,984	7,837	11	2.26	1.40	61	12.53	7.78	96	19.72	12.23	168	34.51	21.43
1933	4,714,784*	8,042	6	1.27	.75	60	12.73	7.46	109	20.99	13.55	175	37.12	21.76
1934	4,748,848*	7,863	15	3.14	1.91	68	14.31	8.65	70	14.74	8.90	153	32.21	19.45
1935	5,462,973*	7,800	35d	6.40	4.47	66	12.08	8.44	113	20.68	14.44	214	39.17	27.35
1936	5,696,375*	8,110	11	1.93	1.36	79	13.87	9.74	101	17.73	12.45	191	33.53	23.55
1937	5,551,682*	7,836	20	3.60	2.55	72	12.97	9.19	73	13.15	9.32	165	29.72	21.06
1938	5,230,015*	7,411	21e	4.01	2.83	72	13.76	9.71	135	25.81	18.21	228	43.59	30.76
1939	5,518,105*	7,456	17	3.08	2.27	57	10.33	7.64	180	32.60	24.14	254	46.03	34.06
1940	6,205,088*	7,416	13	2.10	1.76	79	12.73	10.65	97	15.63	13.08	189	30.46	25.48
1941	6,970,064*	7,714	48f	6.80	6.22	78	11.19	10.11	142	20.37	18.41	268	38.73	34.74
1942	7,754,279*	8,040	17	2.19	2.11	92	11.86	11.44	148	19.09	18.40	257	33.14	31.95
1943	7,677,982*	8,636	25g	3.26	2.87	73	9.51	8.45	152	19.80	17.60	250	32.56	28.95
1944	7,427,433*	8,375	10	1.34	1.19	70	9.42	8.35	125	16.83	14.92	205	27.60	24.47
1945	7,801,248*	8,309	23h	2.93	2.76	51	6.53	6.13	168	21.53	20.24	243	31.02	29.12
1946	8,824,455*	8,583	12	1.36	1.39	76	8.61	8.85	128	14.50	14.91	216	24.47	25.16
1947	8,074,596*	8,772	15	1.86	1.71	121	14.98	13.79	117	14.49	13.33	253	31.33	28.84
1948	8,111,013*	8,865	13	1.60	1.47	91	11.22	10.27	93	11.47	10.49	197	24.29	22.22
1949	8,616,983*	8,682	13	1.51	1.50	89	10.33	10.25	108	12.53	12.44	210	24.37	24.19
1950	8,118,206*	7,999	20i	2.46	2.50	86	10.59	10.75	97	11.95	12.13	203	25.01	25.38
1951	7,661,276*	7,339	9	1.17	1.23	85	11.09	11.58	53	6.92	7.22	147	19.19	20.03

c. Including 10 deaths by explosion at McGillivray Creek Coal & Coke Ltd., Coleman.

d. Including 16 deaths by explosion at Lethbridge Collieries Ltd., Coalhurst.

e. Including 5 deaths by explosion at Hinton Collieries Ltd., Hinton.

f. Including 4 deaths by explosion at North American Collieries Ltd., East Coulee, and 29 deaths by explosion at Brazeau Collieries Ltd., Nordegg.

g. Including 4 deaths caused by explosion at the Kerralta Coal Co., Lethbridge.

h. Including 7 deaths caused by explosion at the Luscar Coals Ltd., Luscar.

i. Including 5 deaths caused by inundation of water at the Cadomin Coal Co. Ltd., Cadomin, and 2 deaths caused by "bump" at the McGillivray Creek Coal & Coke Co. Ltd., Coleman.

* Output does not include coal produced by farmers under permit.

Number of tons produced per accident:

BITUMINOUS COAL FIELD

Area	Output	Average No. of men employed	No. of tons produced per accident			
			Fatal	Serious	Slight	Total
Group 1:						
Cascade	337,847	405	337,847	67,569	112,616	37,539
Nordegg	9,934	80	...	4,967	9,934	3,311
Group 2:						
Crowsnest	2,391,251	2,178	797,084	85,401	149,453	51,942
Mountain Park	770,301	495	770,301	110,043	128,384	55,022
Group 3:						
Coalspur	751,909	748	751,909	187,977	187,977	83,657
Halcourt	936	5	...	...	...	...
Lethbridge	335,371	642	...	55,895	167,686	41,921
Pekisko	5,495	7	...	...	...	...
Pincher	5	1	...	...	...	...
Prairie Creek	1,126	3	...	...	...	...
Red Deer	71	2	...	...	...	...
Saunders	55,143	122	55,143	27,572	55,143	13,786
Total	4,659,289	4,688	665,613	86,283	141,191	49,569

SUB-BITUMINOUS COAL FIELD

Group 4:						
Ardley	53,091	24	...	...	...	...
Big Valley	17,568	14	...	17,568	...	17,568
Brooks	75,648	43	...	75,648	...	75,648
Carbon	56,098	86	...	...	...	...
Champion	7,164	14	...	...	...	...
Drumheller	1,566,102	1,722	783,051	55,932	78,305	31,322
Edmonton	356,770	345	...	...	...	...
Gleichen	13,926	36	...	...	...	...
Milk River	408	1	...	...	...	...
Pembina	164,682	72	...	...	...	...
Taber	121,405	46	...	...	...	...
Wetaskiwin	872	2	...	...	...	...
Whitecourt	820	1	...	...	...	...
Group 5:						
Camrose	60,929	40	...	...	...	...
Castor	273,085	102	...	...	...	...
Pakowki	243	1	...	...	...	...
Redcliff	5,458	13	...	...	...	...
Rochester	193	1	...	...	...	...
Sheerness	56,004	19	...	...	...	...
Tofield	158,971	60	...	158,971	...	158,971
Westlock	12,550	9	...	...	...	...
Total	3,001,987	2,651	1,500,994	96,838	150,099	56,641

SUMMARY

Bituminous	4,659,289	4,688	665,613	86,283	141,191	49,569
Sub-bituminous	3,001,987	2,651	1,500,994	96,838	150,099	56,641
Total	7,661,276	7,339	851,253	90,133	144,552	52,118

Classification of Accidents according to output of mines which produced during the year 1951:

Accidents	Under 1,000 tons	1,000 to 5,000 tons	5,000 to 10,000 tons	10,000 to 50,000 tons	50,000 to 100,000 tons	100,000 to 150,000 tons	150,000 to 200,000 tons	200,000 to 300,000 tons	Over 300,000 tons	Total
Fatal.....	...	...	...	1	1	1	2	1	3	9
Serious.....	1	...	3	5	2	15	13	23	23	85
Slight.....	...	...	1	2	...	12	6	13	19	53
Total.....	1	...	4	8	3	28	21	37	45	147

Tons of coal produced per accident:

Fatal.....	...	...	...	691,154	624,330	1,200,018	432,254	1,513,043	844,075	851,253
Serious.....	22,887	...	37,318	138,231	312,165	80,001	66,501	65,784	110,097	90,133
Slight.....	...	...	111,953	345,577	...	100,002	144,084	116,388	133,276	144,552
Total.....	22,887	...	27,988	86,394	208,110	42,858	41,167	40,893	54,049	52,185

FATAL ACCIDENTS

Russell J. Butts, fireboss, 47, on March 12th, at the mine operated by the Foothills Collieries Ltd., Foothills. A piece of coal broke over the top of a set of timber in Counter Entry between raises 11 and 12, 7 North Level, and fell on him causing fatal injuries.

Michael Loyer, faceman, 61, on June 11th, at the mine operated by the Red Deer Valley Coal Co. Ltd., Drumheller. A piece of roof from No. 7 Room, Right Counter, 9 North Panel fell on him, causing fractured pelvis which resulted in death.

Joe Gardecki, driver, 48, on August 8th, at the mine operated by the McGillivray Creek Coal and Coke Co. Ltd., Coleman. He was driving in 167 Room, No. 2 Level, No. 2 Seam and was squeezed between car and post, resulting in fatal injuries.

Emilio Santinon, miner, 49, on September 25th, at the mine operated by the Bighorn and Saunders Creek Collieries Ltd., Saunders. Rock fell in main Level Pillar, and struck him, fracturing his left leg, resulting in a fatal heart attack.

Allan Carey, locomotive driver's helper, 24, on October 18th, at the mine operated by the International Coal and Coke Co. Ltd., Coleman. He was trying to board a moving locomotive in 234 A Level, York Creek, on entry, and missed the front end of the locomotive, and was caught between collar and locomotive and high side of leg, resulting in fatal chest injuries.

James Johnson, box-car loader, 17, on October 19th, at the mine operated by the Kananaskis Exploration and Development Co. Ltd., Seebe. He was appling belt dressing to head pulley of coal loading belt at tipple, and was caught and pulled into the pulley, causing fractured neck, resulting in death.

Melvin Brooks, truck driver, 24, on October 24th, at the mine operated by the Hillcrest Mohawk Collieries Ltd., Bellevue. He was standing on cat walk of shovel at strip mine, when a slide of coal came off the high side, burying him, causing mechanical asphyxiation.

Edwin Widdifield, cat operator, 21, on December 5th, at the mine operated by the Luscar Coals Ltd., Luscar. The caterpillar he was operating at No. 5 strip mine, toppled over the bank, pinning him underneath, causing multiple fracture of spine and evisceration, resulting in death.

John McPherson, joy loader operator, 40, on December 11th, at the mine operated by the Red Deer Valley Coal Co. Ltd., Drumheller. He was going to 11 North Entry Face with joy loader when the roof fell on him, causing fatal injuries.

In addition to the above, the following deaths occurred, which were not entered as mine fatalities:

Stanley Winarski, boiler attendant, 38, on April 5th, at the mine operated by the West Canadian Collieries Ltd., Bellevue. He collapsed in the boiler room, due to a coronary thrombosis.

John M. McAndrew, driver boss, 45, on May 28th, at the mine operated by the West Canadian Collieries Ltd., Blairmore. He collapsed due to natural causes in 7 Level Entry, No. 2 Seam.

James Gillard, miner, 52, on July 23rd, at the mine operated by the Murray Collieries Ltd., Drumheller. He collapsed in 1st Slant inby 5 South Entry, from a heart attack.

J. Pieschuk, mechanical loader operator, 37, on October 15th, at the mine operated by the Lethbridge Collieries Ltd., Lethbridge. He collapsed due to natural causes in 1st Slant off 16 B, 2 N.E.

Karl Schon, fireboss, 53, on December 17th, at the mine operated by the Bighorn and Saunders Creek Collieries Ltd., Saunders. He collapsed due to natural causes in Entry of prospect of upper seam.

ACCIDENTS AS THEY OCCURRED BY MONTHS DURING THE YEAR 1951:

Months	Above Ground				Below Ground				Total Above and Below Ground
	Fatal	Serious	Slight	Total	Fatal	Serious	Slight	Total	
January	...	3	1	4	...	3	4	7	11
February	...	2	1	3	...	4	1	5	8
March	...	3	3	6	1	5	1	7	13
April	...	1	2	3	...	4	6	10	13
May	...	2	2	4	...	3	6	9	13
June	...	2	1	3	1	2	2	5	8
July	...	1	1	2	...	5	3	8	10
August	...	1	...	1	1	3	2	6	7
September	...	3	2	5	1	7	2	10	15
October	2	4	3	9	1	8	5	14	23
November	...	1	2	3	...	6	1	7	10
December	1	...	...	1	1	12	2	15	16
Total	3	23	18	44	6	62	35	103	147

ACCIDENTS OCCURRING IN THE PROVINCE ABOVE AND BELOW GROUND DURING THE YEAR 1951:

Causes	Above Ground				Below Ground				Total Above and Below Ground
	Fatal	Serious	Slight	Total	Fatal	Serious	Slight	Total	
Box-car handling	...	4	...	4	...	...	...	...	4
Bucking coal	...	...	...	...	...	...	2	2	2
Chute loading	...	...	...	...	...	2	...	2	2
Coal-cutting machinery	...	...	...	...	...	2	...	2	2
Coal-loading machinery	...	...	...	...	...	...	1	1	1
Coupling cars	...	...	...	...	...	3	1	4	4
Electricity	...	1	...	1	...	...	...	...	1
Explosives	...	...	...	...	...	2	...	2	2
Fall of coal	...	...	...	...	1	8	5	14	14
Fall of rock	...	...	...	...	3	13	3	19	19
Haulage	...	3	...	3	2	22	9	33	36
Loading coal	...	...	...	...	...	...	1	1	1
Miscellaneous	...	10	14	24	...	10	9	19	43
Spragging cars	...	...	...	...	...	...	1	1	1
Strip mining	2	1	2	5	...	...	...	...	5
Timbering	...	...	...	...	...	...	3	3	3
Tipple machinery	1	4	2	7	...	...	...	...	7
Total	3	23	18	44	6	62	35	103	147

Accidents occurring in the Province above and below ground for the year 1951, classified according to the area in which they occurred:

BITUMINOUS

Areas	Above Ground				Below Ground				Total Above and Below Ground
	Fatal	Serious	Slight	Total	Fatal	Serious	Slight	Total	
Cascade	1	1	1	3	...	4	2	6	9
Nordegg	...	...	...	...	...	2	1	3	3
Crowsnest	1	7	7	15	2	21	9	32	47
Mountain Park	1	6	4	11	...	1	2	3	14
Coalspur	...	2	1	3	1	2	3	6	9
Lethbridge	...	1	...	1	...	5	2	7	8
Saunders	...	1	1	2	1	1	...	2	4
Total	3	18	14	35	4	36	19	59	94

SUB-BITUMINOUS

Big Valley	...	...	...	...	...	1	...	1	1
Brooks	...	1	...	1	...	...	...	...	1
Drumheller	...	3	4	7	2	25	16	43	50
Tofield	...	1	...	1	...	...	...	...	1
Total	...	5	4	9	2	26	16	44	53

Classification of Accidents according to the Coal Fields in which they Occurred:

BITUMINOUS

Causes	Above Ground				Below Ground				Total Above and Below Ground
	Total	Serious	Slight	Total	Fatal	Serious	Slight	Total	
Rope Haulage, squeezed between car and post	...	...	...	...	...	3	...	3	3
Rope Haulage, hit by derailed car	...	...	...	...	...	2	...	2	2
Rope Haulage, hit by rope	...	1	...	1	...	1	...	1	2
Horse Haulage, squeezed between car and post	...	...	...	...	1	...	...	1	1
Horse Haulage, squeezed between cars	...	...	...	...	...	1	...	1	1
Horse Haulage, fell in front of car	...	...	...	...	...	...	1	1	1
Hand Haulage, squeezed between cars	...	1	...	1	...	1	...	1	2
Hand Haulage, leg caught under bumper of car	...	...	...	...	...	1	...	1	1
Hand Haulage, slipped while pushing car	...	...	...	...	...	...	1	1	1
Locomotive Haulage, squeezed between cars	...	...	...	...	...	1	...	1	1
Locomotive Haulage, squeezed between locomotive and post	...	...	...	...	1	2	...	3	3
Locomotive Haulage, squeezed between locomotive and door	...	...	...	...	...	...	1	1	1
Locomotive Haulage, fell in front of locomotive	...	1	...	1	...	...	...	...	1
Fall of rock in entry	...	...	...	...	...	1	...	1	1
Fall of rock in room	...	...	...	...	...	4	2	6	6
Fall of rock in pillar	...	...	...	...	1	1	...	2	2
Fall of coal in entry	...	...	...	...	...	1	1	2	2
Fall of coal in room	...	...	...	...	1	2	2	5	5
Fall of coal in pillar	...	...	...	...	...	3	...	3	3
Coal-loading Machinery, joy loader ran over his foot	...	...	...	...	...	...	1	1	1
Strip Mining, bulldozer arm dropped on his foot	...	...	1	1	...	...	...	...	1
Strip Mining, hit by slide of coal	1	...	...	1	...	...	...	...	1
Strip Mining, caught hand on scraper	...	...	1	1	...	...	...	...	1
Strip Mining, pinned under overturned caterpillar	1	...	...	1	...	...	...	...	1
Box-car Handling, bar hit hand	...	1	...	1	...	...	...	...	1
Box-car Handling, box-car wheel passed over toes	...	1	...	1	...	...	...	...	1
Box-car Handling, fell from box-car	...	1	...	1	...	...	...	...	1

BITUMINOUS (Cont'd)

Tipple Machinery, caught between belt and pulley	1	2	1	4	...	...	...	...	4
Tipple Machinery, machinery fell on foot	...	...	1	1	...	...	...	...	1
Tipple Machinery, shovel caught in belt drive	...	1	...	1	...	...	...	...	1
Tipple Machinery, squeezed between chain and sprocket	...	1	...	1	...	...	...	...	1
Timbering, post fell on his foot	...	...	...	...	...	...	1	1	1
Bucking Coal, cut hand on sheet iron	...	...	...	...	...	...	1	1	1
Bucking Coal, hit by coal from chute	...	...	...	...	...	...	1	1	1
Explosives, hit by flying coal from shot	...	...	...	...	...	1	...	1	1
Coupling Cars, fingers caught in coupling	...	...	...	...	...	...	1	1	1
Coupling Cars, squeezed his foot	...	...	...	...	...	1	...	1	1
Coupling Cars, squeezed between cars	...	...	...	...	...	1	...	1	1
Chute Loading, hit by coal from chute	...	...	...	...	...	2	...	2	2
Miscellaneous, hit with bar	...	...	3	3	...	1	1	2	5
Miscellaneous, hit on hand by brake stick	...	...	...	...	...	...	1	1	1
Miscellaneous, burns from acetylene generator	...	1	1	2	...	...	...	...	2
Miscellaneous, pinched finger between spike bar and rail	...	...	1	1	...	...	...	...	1
Miscellaneous, slipped and fell	...	2	4	6	...	...	1	1	7
Miscellaneous, prop fell on his foot	...	1	...	1	...	1	1	2	3
Miscellaneous, squeezed between timber truck and car	...	...	...	...	...	1	...	1	1
Miscellaneous, coal from chute struck his arm	...	...	...	...	...	1	...	1	1
Miscellaneous, struck by timber while crossing chute	...	...	...	...	...	1	...	1	1
Miscellaneous, squeezed leg between conveyor and side	...	...	...	...	...	1	...	1	1
Miscellaneous, rope broke causing him to bounce in truck	...	1	...	1	...	...	...	...	1
Miscellaneous, squeezed between car and post	...	...	...	...	...	1	...	1	1
Miscellaneous, cut foot with axe	...	1	...	1	...	...	1	1	2
Miscellaneous, overcome by fumes	...	1	...	1	...	...	...	...	1
Miscellaneous, material fell on him	...	1	1	2	...	...	...	...	2
Miscellaneous, squeezed between timbers	...	...	...	...	...	...	1	1	1
Total	3	18	14	35	4	36	19	59	94

SUB-BITUMINOUS

Horse Haulage, car hit him	...	...	...	...	...	...	2	2	2
Horse Haulage, fell under car	...	...	...	...	...	1	...	1	1
Horse Haulage, fell off car	...	...	...	...	...	2	...	2	2
Horse Haulage, wrenched shoulder when horse balked	...	...	...	...	...	...	1	1	1
Horse Haulage, squeezed between car and post	...	...	...	...	...	1	...	1	1
Hand Haulage, squeezed foot when car derailed	...	...	...	...	...	...	1	1	1
Hand Haulage, squeezed finger between coal and car	...	...	...	...	...	...	1	1	1
Locomotive Haulage, squeezed fingers in switch	...	...	...	...	...	...	1	1	1
Locomotive Haulage, squeezed between cars	...	...	...	...	...	1	...	1	1
Locomotive Haulage, squeezed between derailed car and timber	...	...	...	...	...	1	...	1	1
Locomotive Haulage, squeezed between locomotive and door	...	...	...	...	...	1	...	1	1
Locomotive Haulage, fell under trip	...	...	...	...	...	1	...	1	1
Locomotive Haulage, squeezed between locomotive and post	...	...	...	...	...	2	...	2	2
Fall of rock in entry	...	...	...	...	...	3	...	3	3
Fall of rock in room	...	...	...	...	2	4	1	7	7
Fall of coal in entry	...	...	...	...	...	1	1	2	2
Fall of coal in room	...	...	...	...	...	1	1	2	2
Loading Coal, piece of coal fell on his foot	...	...	...	...	...	...	1	1	1
Strip Mining, squeezed between tractor and door	...	1	...	1	...	...	...	...	1
Box-car Handling, squeezed between railroad car and loader house	...	1	...	1	...	...	...	...	1
Timbering, cut thumb with axe	...	...	...	...	...	...	1	1	1
Timbering, post fell on his hand	...	...	...	...	...	...	1	1	1
Coal-cutting Machinery, bar struck picks and hit him	...	...	...	...	...	2	...	2	2
Explosives, hit by flying cardox shell	...	...	...	...	...	1	...	1	1
Coupling Cars, squeezed between cars	...	...	...	...	...	1	...	1	1
Spragging Cars, wheel ran over hand	...	...	...	...	...	...	1	1	1
Electricity, contacted live wire at transformer	...	1	...	1	...	...	...	...	1
Miscellaneous, rail fell on foot	...	...	...	...	...	...	1	1	1
Miscellaneous, using electric drill and hit his hand	...	...	1	1	...	1	...	1	2
Miscellaneous, slipped and fell	...	1	1	2	...	1	1	2	4
Miscellaneous, caught finger between lumps of coal	...	...	1	1	...	...	...	...	1
Miscellaneous, piece of coal fell on his hand	...	...	1	1	...	...	...	...	1
Miscellaneous, finger caught in roof jack	...	...	...	...	...	...	1	1	1
Miscellaneous, caught finger in pinion gear	...	1	...	1	...	...	...	...	1
Miscellaneous, hit head on timber	...	...	...	...	...	1	...	1	1
Total	...	5	4	9	2	26	16	44	53

SUMMARY

Bituminous	3	18	14	35	4	36	19	59	94
Sub-bituminous	...	5	4	9	2	26	16	44	53
Total	3	23	18	44	6	62	35	103	147

Accidents during 1951, classified according to the Mines in which they Occurred:

BITUMINOUS

Name of Operator	Area	Above Ground				Below Ground				Total Above and Below Ground
		Fatal	Serious	Slight	Total	Fatal	Serious	Slight	Total	
Alexo Coal Co. Ltd.	Saunders	...	...	1	1	...	1	...	1	2
Bighorn and Saunders Creek Collieries Ltd.	Saunders	...	1	...	1	1	...	...	1	2
Brazeau Collieries Ltd.	Nordegg	...	...	...	...	...	2	1	3	3
Cadomin Coal Co. Ltd.	Mountain Park	...	3	...	3	...	1	...	1	4
Canmore Mines Ltd.	Cascade	...	...	1	1	...	4	2	6	7
Foothills Collieries Ltd.	Coalspur	...	...	...	...	1	...	...	1	1
Hillcrest Mohawk Collieries Ltd. (133)	Crowsnest	...	1	...	1	...	...	1	1	2
Hillcrest Mohawk Collieries Ltd. (1695)	Crowsnest	1	...	3	4	...	...	...	...	4
International Coal & Coke Co. Ltd.	Crowsnest	...	2	...	2	1	6	2	9	11
Kananaskis Exploration & Development Co. Ltd.	Cascade	1	1	...	2	...	...	...	...	2
Lethbridge Collieries Ltd. (1263)	Lethbridge	...	1	...	1	...	...	1	1	2
Lethbridge Collieries Ltd. (1464)	Lethbridge	...	...	...	...	...	5	1	6	6
Luscar Coals Ltd.	Mountain Park	1	3	4	8	...	...	2	2	10
McGillivray Creek Coal & Coke Co. Ltd.	Crowsnest	...	...	1	1	1	8	2	11	12
McLeod River Hard Coal Co. (1941) Ltd.	Coalspur	...	2	1	3	...	2	3	5	8
West Canadian Collieries Ltd. (87)	Crowsnest	...	2	3	5	...	5	2	7	12
West Canadian Collieries Ltd. (396)	Crowsnest	...	2	...	2	...	2	2	4	6
Total	...	3	18	14	35	4	36	19	59	94

SUB-BITUMINOUS

Aetna Coals Ltd.	Drumheller	...	...	...	...	...	1	1	2	2
Black Nugget Coal Co. Ltd.	Tofield	...	1	...	1	...	...	...	...	1
Brilliant Coal Co. Ltd.	Drumheller	...	...	2	2	...	1	1	2	4
Century Coals Ltd. (422)	Drumheller	...	...	...	...	...	4	5	9	9
Century Coals Ltd. (1484)	Drumheller	...	1	...	1	...	2	3	5	6
Joy Coal Mining Co. Ltd.	Drumheller	...	...	...	...	...	1	...	1	1
Kleenbirn Collieries Ltd.	Brooks	...	1	...	1	...	...	...	...	1
Midland Coal Mining Co. Ltd.	Drumheller	...	...	...	...	...	2	...	2	2
Monarch Coal Mining Co. Ltd.	Drumheller	...	...	...	...	...	6	1	7	7
Murray Collieries Ltd.	Drumheller	...	1	...	1	...	2	...	2	3
Red Deer Valley Coal Co. Ltd.	Drumheller	...	...	...	...	2	1	...	3	3
Robert Campkin and Sons	Big Valley	...	...	...	...	...	1	...	1	1
Rosedale Collieries Ltd. (346)	Drumheller	...	...	...	...	...	1	...	1	1
Saskatchewan Federated Co-operatives Ltd. (1299)	Drumheller	...	1	...	1	...	1	...	1	2
Saskatchewan Federated Co-operatives Ltd. (1421)	Drumheller	...	...	2	2	...	3	5	8	10
Total	...	...	5	4	9	2	26	16	44	53

SUMMARY

Bituminous	...	3	18	14	35	4	36	19	59	94
Sub-bituminous	...	...	5	4	9	2	26	16	44	53
Total	...	3	23	18	44	6	62	35	103	147

LIST OF PROSECUTIONS INSTITUTED UNDER THE COAL MINES REGULATION ACT, FOR THE YEAR ENDING DECEMBER 31, 1951.

Mine in which Contravention was Committed	Description of Defendent	Offence Charged	Result of Proceedings	Penalty	Costs
Coal Valley Mining Co. Ltd...	Driller.....	Did couple up shot to blasting cable and coupled blasting cable to firing battery.	Convicted....	Fined $15.00.....	$10.60
Canmore Mines Ltd.....	Haulageman...	Did unlawfully detrain from a mantrip while same was in motion.....	Convicted....	Fined $2.00.....	$ 4.00
Canmore Mines Ltd.....	Fireboss.....	Did unlawfully tamp up shot holes containing explosives, in a number in excess of the number permitted.....	Convicted....	Fined $5.00.....	$ 4.00
McLeod River Hard Coal Co. (1941) Ltd.....	Miner.....	Did fail to bring explosives remaining in his possession out of the mine at the end of his shift.....	Convicted....	Fined $20.00.....	$ 4.00
West Canadian Collieries Ltd.	Fireboss.....	Did fail to examine working places.....	Convicted....	Fined $20.00.....	$ 4.50
Luscar Coals Ltd.....	Driller.....	Did commit an act likely to cause danger to the mine or to himself or to any person.....	Convicted....	Fined $20.00.....	$ 5.10
Luscar Coals Ltd.....	Strip Mine Manager.....	Did commit an act likely to cause danger to the mine or to himself or to any person.....	Convicted....	Fined $25.00.....	$ 5.10
Luscar Coals Ltd.....	Fireboss.....	Did allow a person other than himself to couple shot-firing cable to detonator....	Convicted....	Fined $25.00.....	$ 5.10
Rosedale Collieries Ltd.....	Machine Boss.	Did unlawfully act as a mine electrician without being the holder of a certificate	Convicted....	Fined $20.00.....	$ 2.00
Rosedale Collieries Ltd.....	Machine Boss.	Did unlawfully and without proper authority interfere with a ventilating appliance in the mine.....	Convicted....	Fined $20.00.....	$ 3.00

Rosedale Collieries Ltd.....	Examiner.....	Did make a false statement to a mine inspector and thereby obstructed the inspector in the execution of his duties.....	Convicted....	Fined $20.00.....	$ 3.00
Beaver Mines Coal Co.....	Owner.....	Did fail to send or cause to be sent to the Director of Mines on or before the 15th day of each month a correct return showing the quantity of coal or other mineral wrought or mined in such mine for the preceding calendar month.....	Convicted....	Fined $20.00.....	$ 4.50
King Coal and Lumber Ltd.....	Agent.....	Did fail to send or cause to be sent to the Director of Mines on or before the 15th day of each month a correct return showing the quantity of coal or other mineral wrought or mined in such mine for the preceding calendar month.....	Convicted....	Fined $50.00.....	$ 5.00
North Western Coal and Oil Ltd.....	Fireboss.....	Did fail to keep all detonators issued to him in a locked box.....	Convicted....	Fined $10.00.....	$ 3.00
North Western Coal and Oil Ltd.....	Strip Mine Manager.....	Did fail to keep the explosive storage magazine securely locked.....	Convicted....	Fined $10.00.....	$ 3.00
Thorhild Coal Mine.....	Operator.....	Did operate a coal mine without a certificated person being in charge.....	Convicted....	Fined $10.00.....	$ 2.00
E.Z. Coal Mine.....	Operator.....	Did operate a coal mine without a certificated person being in charge.....	Convicted....	Fined $15.00.....	$ 4.00
International Coal and Coke Co. Ltd.....	Timber Packer	Did have in his possession one lucifer match.....	Convicted....	Fined $5.00.....	$ 4.50
Saskatchewan Federated Co-operatives Ltd.....	Haulage Hand.	Did without lawful authority enter the premises and mine without first having obtained permission.....	Convicted....	Fined $10.00.....	$ 2.00

Saskatchewan Federated Co-operatives Ltd.....	Driver Boss..	Did without lawful authority enter the premises and mine without first having obtained permission.....	Convicted....	Fined $20.00.....	$ 2.00
Saskatchewan Federated Co-operatives Ltd.....	Driver Boss..	Did enter the mine in a state of intoxication.....	Convicted....	Fined $25.00.....	$ 2.00
Bighorn and Saunders Creek Collieries Ltd.....	Mine Manager.	Did fail to see that all the requirements of the Coal Mines Regulation Act were carried out.....	Convicted....	Fined $20.00.....	$ 3.50
Bighorn and Saunders Creek Collieries Ltd.....	Overman.....	Did fire shots in a large mine.....	Convicted....	Fined $10.00.....	$ 3.50
Rosedale Collieries Ltd.....	Overman.....	Did commit an act likely to cause danger to the mine or to himself or to any person.....	Convicted....	Fined $40.00.....	$41.00
Rosedale Collieries Ltd.....	Overman.....	Did obstruct an inspector in the execution of his duties.....	Not Convicted	None.....	None
Rosedale Collieries Ltd.....	Mine Manager.	Did unlawfully induce an examiner to fail to perform a duty required of him.....	Not Convicted	None.....	None
Rosedale Collieries Ltd.....	Mine Manager.	Did fail to provide an examiner for each operating district of the mine.....	Not Convicted	None.....	None

NUMBER OF MINES OPENED, RE-OPENED, CLOSED AND ABANDONED ACCORDING TO AREAS AND KIND OF COAL, DURING THE YEAR

Director of Mines - John Crawford, Provincial Building, Edmonton, Alberta. Telephone 22698

Assistant to the Director of Mines-J.A. Dutton, Provincial Building, Edmonton, Alberta. Telephone 22889

Electrical Inspector of Mines - Burton Tait, Provincial Building, Edmonton, Alberta. Telephone 28614

Inspection District	Area	Area Number	Character of Coal	No. of Mines in operation at Dec. 31/51.	No. of Mines opened during the year	No. of Mines re-opened during the year	No. of Mines closed during the year	No. of Mines abandoned during the year	Name and Address of District and Assistant District Inspectors of Mines
Edmonton	Camrose	5	Sub-bituminous	5	...	1	1	...	J. Thomson,
	Castor	8	Sub-bituminous	15	...	10	10	1	Provincial Building,
	Edmonton	15	Sub-bituminous	18	1	8	9	4	Edmonton, Alberta.
	Halcourt	18	Bituminous	2	...	1	1	1	Telephone 28612
	High Prairie	18-A	Sub-bituminous	...	1	...	...	...	
	Pembina	31	Sub-bituminous	7	...	3	3	4	
	Rochester	35	Sub-bituminous	...	...	...	...	...	
	Slave	38	Sub-bituminous	...	...	...	...	1	
	Tofield	42	Sub-bituminous	5	...	2	2	...	
	Westlock	45	Sub-bituminous	3	...	...	...	...	
	Wetaskiwin	46	Sub-bituminous	1	...	1	1	...	
	Whitecourt	47	Sub-bituminous	1	...	...	...	1	
	No Area	..	Bituminous	...	...	...	...	1	
Calgary	Cascade	7	Bituminous	3	...	...	...	...	A. Muir,
	Highwood	19	Bituminous	...	...	...	...	2	New Courthouse Bldg.
	Morley	23	Bituminous	...	...	...	...	1	Calgary, Alberta.
	Nordegg	25	Bituminous	1	...	...	...	...	Telephone 28584
	Pekisko	30	Bituminous	1	...	1	1	...	
	Saunders	36	Bituminous	2	...	1	1	...	
Edson	Coalspur	11	Bituminous	6	...	1	1	1	A.L. Lister,
	Mountain Park	24	Bituminous	2	...	...	...	...	Edson, Alberta.
	Prairie Creek	33	Bituminous	1	...	...	1	...	Telephone 35
									J.D.B. Brown,
Blairmore	Crowsnest	12-13	Bituminous	7	...	...	...	2	P. Melson,
	Pincher	32	Bituminous	...	...	...	...	1	Blairmore, Alberta.
									Telephone 2160
Drumheller	Drumheller	14	Sub-bituminous	11	...	...	1	3	James Horne,
	Gleichen	17	Sub-bituminous	4	...	...	...	...	Drumheller, Alberta.
									Telephone 2413
Stettler	Ardley	1	Sub-bituminous	6	...	3	5	...	R. Shaw,
	Big Valley	2	Sub-bituminous	2	...	1	2	...	Courthouse,
	Carbon	6	Sub-bituminous	11	1	1	2	...	Stettler, Alberta.
	Castor	8	Sub-bituminous	6	...	5	6	...	Telephone 376
	Drumheller	14	Sub-bituminous	8	...	1	2	...	
	Red Deer	22-3	Bituminous	1	1	...	...	...	
	Sheerness	38	Sub-bituminous	4	...	2	1	1	
Lethbridge	Brooks	3	Sub-bituminous	2	...	2	2	...	E.H. Morgan,
	Champion	9	Sub-bituminous	4	...	3	3	...	Lethbridge, Alberta.
	Lethbridge	20	Bituminous	5	...	1	2	1	Telephone 3325
	Milk River	22	Sub-bituminous	1	...	1	1	...	
	Pakowki	28	Sub-bituminous	1	...	1	1	...	
	Redcliff	34	Sub-bituminous	1	...	1	1	1	
	Taber	41	Sub-bituminous	4	1	3	3	...	
	Total.....	..	.....	151	5	54	63	26	

NOTE: 14 mines not working as at December 31st, 1950 were abandoned during the year 1951.

BOARD OF EXAMINERS

The Provincial Board of Examiners during the year 1951, consisted of the following:

As representing:

(a) The Mine Inspectorate: John Crawford, Director of Mines.

(b) Managers: A. Crawford and William Wilson.

(c) Working Miners: Andrew Campbell and D. J. Holly.
Secretary: Muriel Roberts.

Examinations during the year were held as follows:

For Third Class at the following centres: Blairmore, Lethbridge, Edmonton, Cadomin, and Drumheller, on May 29th.

For First and Second Class at the following centres: Calgary and Edmonton, on June 5th, 6th and 7th.

For Mine Surveyor at the following centres: Calgary and Edmonton, on June 7th.

For Mine Electrician at the following centres: Lethbridge, Edmonton, Cadomin and Drumheller, on May 29th.

Nine candidates presented themselves for examination for First Class Certificates, of whom three were successful.

Nine candidates presented themselves for examination for Second Class Certificates, of whom five were successful.

Twenty-six candidates presented themselves for examination for Third Class Certificates, of whom twenty were successful.

Nine candidates presented themselves for examination for Mine Surveyors' Certificates, of whom five were successful.

Twelve candidates presented themselves for examination for Mine Electricians' Certificates, five for First Class of whom two were successful, and seven for Second Class, of whom five were successful.

The list following herewith gives the names of successful candidates for all classes of certificates during 1951.

LIST OF NAMES OF HOLDERS OF FIRST, SECOND AND THIRD CLASS, MINE SURVEYORS' AND MINE ELECTRICIANS' CERTIFICATES.

Issued by the Government of the Province of Alberta during the year 1951

FIRST CLASS

Name	Address	Cert. No.	Date of Certificate
Bhattacharjee, Santosh K.	Coleman	11	16-7-51
Olynek, Edward	Bellevue	13	16-7-51
Panchysyn, Edward J. *	Blairmore	12	16-7-51

SECOND CLASS

Name	Address	Cert. No.	Date of Certificate
Galvon, Joseph J.	Blairmore	21	16-7-51
Ivanchuk, Michael P.	Edmonton	22	16-7-51
Ramsay, MacDonald	East Coulee	18	16-7-51
Smillie, John	Foothills	20	16-7-51
Tanner, Moore G.	Midlandvale	19	16-7-51

THIRD CLASS

Anderson, John G.	Wayne	71	16-7-51
Berendt, Carl H.	Luscar	75	16-7-51
Boyce, James A.	East Coulee	76	16-7-51
Budd, Kenneth J.	New Westminster (dup.)	86	26-11-51
Donovan, William J.	Mercoal	73	16-7-51
Ewing, William G.	Drumheller	80	16-7-51
Gurtler, Rudolf	East Coulee	83	16-7-51
Hopper, Luther T.	Mercoal	72	16-7-51
Kay, Valiant E.	Coleman	67	16-7-51
Komperdo, John *	Heisler	81	16-7-51
Krill, Melvin	East Coulee	66	16-7-51
Mayzel, Albert D.	Heisler	84	16-7-51
Michielin, Ido D.	Midlandvale	74	16-7-51
Mikulosik, Frank	Cambria	70	16-7-51
MacPherson, Norman T.	Heisler	82	16-7-51
Pollitt, Alexander	Alexo	78	16-7-51
Prokopetz, Walter	Alexo	85	16-7-51
Spensley, Thomas Jr.	Drumheller	68	16-7-51
Tyrlik, Joseph	Heisler	79	16-7-51
White, William A.	Hillcrest	77	16-7-51
Wojtula, Emil J.	Hillcrest	69	16-7-51

MINE SURVEYOR

Erikson, Robert G.	Mercoal	11	16-7-51
McIntyre, John F.	Coleman	15	16-7-51
Shaw, Robert	Stettler	13	16-7-51
Squire, Ronald E.	Luscar	12	16-7-51
Wieckowski, Mieczyslaw	Coleman	14	16-7-51

FIRST CLASS ELECTRICIAN

Gustason, Oxyl G.	Canmore	15	16-7-51
Harvey, Edward N.	Rosedale	16	16-7-51

SECOND CLASS ELECTRICIAN

Collins, Charles E.	Drumheller	12	16-7-51
Daintith, Joseph	Camrose	11	16-7-51
Fox, Benjamin	Carbon	9	16-7-51
Miller, Leonard E. A.	Drumheller	10	16-7-51
O'Dwyer, Harold A.	Wayne	13	16-7-51

* Certificate not issued as at December 31st, 1951.

STRIP MINE BOARD OF EXAMINERS

The board of Examiners during the year 1951 consisted of the following:

As representing:

(a) The Mine Inspectorate: J. A. Dutton, Assistant to the Director of Mines.

(b) Strip Mine Managers: G. A. Wiggan.

(c) Strip Mine Workers: R. E. Larson.
Secretary: Muriel Roberts.

Examinations during the year were held as follows:

For Foremen and Blasters at the following centres: Edmonton, Blairmore, Lethbridge, Cadomin and Drumheller on May 29th and 30th, and Edmonton on November 13th.

For Strip Mine Managers at the following centres: Calgary and Edmonton on July 7th.

Three candidates presented themselves for examination for Strip Mine Managers' Certificates, of whom two were successful. In addition thereto, there were four Strip Mine Managers' Certificates issued without examination.

Fourty-three candidates presented themselves for examination for Foreman's Certificates, of whom thirty-nine were successful.

Six candidates presented themselves for examination for Blasters' Certificates. All were successful.

The list following herewith gives the names of successful candidates for all classes of certificates during 1951.

LIST OF HOLDERS OF STRIP MINE MANAGERS', FOREMAN'S AND BLASTERS' CERTIFICATES

Issued by the Government of the Province of Alberta during the year 1951.

STRIP MINE MANAGER

Name	Address	Cert. No.	Date of Certificate
Bish, Homer F.	Forestburg	58	3- 7-51
Halldorson, Arni S.	Hillcrest	57	3- 7-51
Kubin, John J.	Bellevue	54	28- 2-51
Morgan, Evan H.	Lethbridge	56	5- 3-51
Morris, William	Foothills	55	1- 3-51
Platt, John	Calgary	59	17-12-51

STRIP MINE FOREMAN

Bartsch, Theodore G.	Foothills	70	3- 7-51
Binder, Christopher	Ryley	92	22-11-51
Bordula, Edward A. *	Hanna	89	22-11-51
Campbell, Albert A. *	Round Hill	68	3- 7-51
Campkin, Bruce C. *	Lousana	80	3- 7-51
Cardle, Terrence P.	Bellevue	65	3- 7-51
Clark, Wayne R. *	Keep Hills	69	3- 7-51
Coljee, Henry	Edmonton	74	3- 7-51
Cornelssen, Kenneth K. *	Nevis	71	3- 7-51
Farrell, Clarence	Luscar	81	3- 7-51
Fergstad, Charles A. Jr. *	Round Hill	72	3- 7-51
Fergstad, Charles A. Sr.	Round Hill	77	3- 7-51
Fodor, Frank *	Warburg	94	22-11-51
Foss, George *	Dodds	88	22-11-51
Galvin, Raymond E.	Grassy Lake	73	3- 7-51
Gryschuk, Lenin N. *	Hillcrest	75	3- 7-51
Harrison, Edward B.	Luscar	59	3- 7-51
Jones, Charles W. *	Ardley	78	3- 7-51
Jones, William A.	Donalda	93	22-11-51
Larson, Roy E.	Luscar	62	3- 7-51
Marshall, Robert S.	Luscar	61	3- 7-51
Martin, Gabriel	St. Francis	63	3- 7-51
Mather, John *	Edmonton	87	22-11-51
Melesko, John *	Thorhild	96	22-11-51
Milne, John A. *	Stettler	83	3- 7-51
Muspratt, Gordon T. *	Coleman	84	22-11-51
McLeod, Thomas R. *	Edmonton	91	22-11-51
Ostertag, Charles *	Entwistle	66	3- 7-51
Plesuk, William	Beverly	85	22-11-51
Pratt, Howard S. *	Dodds	86	22-11-51
Rushton, Stanley S. *	Drumheller	95	22-11-51
Shearer, John C.	Hillcrest	58	3- 7-51
Skarin, Emil R. T. *	Edmonton	90	22-11-51
Steffen, William *	Ryley	82	3- 7-51
Straub, Robert R. *	Alix	60	3- 7-51
Troudt, Jacob	Coal Valley	67	3- 7-51
Voykin, Peter *	Blairmore	79	3- 7-51
Walper, William H. *	Alix	76	3- 7-51
Watson, Alex *	Blue Ridge	64	3- 7-51

STRIP MINE BLASTER

Jackson, Harold W. *	Forestburg	17	22-11-51
Lane, Ernest L. *	Eyremore	15	3- 7-51
Mitchell, John C.	Luscar	12	3- 7-51
Nixon, George R. *	Eyremore	14	3- 7-51
Poulsen, Paul	Luscar	16	3- 7-51
Swaren, Clarence R. *	Camrose	13	3- 7-51

* Certificate not issued as at December 31st, 1951.

LIST OF HOLDERS OF FIRST, SECOND AND THIRD CLASS CERTIFICATES, MINE SURVEYORS' AND MINE ELECTRICIANS' CERTIFICATES

Issued by the Government of the Province of Alberta to December 31st, 1951.

LIST OF NAMES OF HOLDERS OF FIRST CLASS CERTIFICATES

Name	Address	Cert. No.	Date of Issue
*Addie, W.	Lundbreck	19	25- 8-03
*Alderson, Fred D.	Hosmer, B.C.	52	27- 9-11
*Allen, Peter	Coleman	72	5-11-12
Aschacker, Martin	Blairmore	16	13- 7-48
Ashburn, Edward	Lethbridge	40	9-12-10
Aspinall, Francis	Bellevue	22	1- 3-09
Barclay, William	Drumheller	11	31- 7-36
Barnes, Arthur W.	Passburg	74	7-11-12
*Bastian, J.	Taber	43	19- 7-04
Baxter, Andrew W.	Lethbridge	47	22-12-10
Bhattacharjee, Santosh K.	Coleman	11	16- 7-51
Bilson, George H.	Beverly	27	28- 6-18
*Black, Ernest D.	Coalhurst	84	29- 7-13
Blair, John	Wayne	55	24- 7-24
Blake, Henry	Bellevue	25	27- 7-17
Blasetti, Angelo	Nordegg	7	19- 7-50
Bradshaw, G. B.	Nanaimo, B.C.	61	16- 5-05
Brady, John	Canmore	14	20- 7-43
Broome, G. H.	New Zealand	46	28-11-04
Brown, Hugh R.	Commerce	26	28- 6-18
*Brown, J.	Banff	18	24- 8-03
Brown, J. D. B.	Saunders	12	1- 8-42
Brown, R. J.	Coal Creek, B.C.	30	3- 7-18
Brown, Thomas	Edmonton	42	5- 9-19
*Brownrigg, John H.	Bankhead	21	17- 7-17
Brusset, John A.	Blairmore	10	1- 8-42
Brydon, Andrew D.	Canmore	4	18- 9-14
Burton, John T.	Edmonton	13	8- 8-36
*Callander, Ira C.	Pocahontas	13	12- 8-16
Campbell, Thomas	Drumheller	13	14- 7-43
Chavignaud, Louis G.	Luscar	71	6- 8-27
*Christianson, Peter	Edmonton	48	21-12-10
Church, J. A. H.	Frank	11	23- 1-08
*Clyne, James	Canmore	69	18- 3-12
Clyne, James M.	Edmonton	16	13- 7-44
Cochrane, James	Cumberland, B.C.	12	31- 7-47
Collins, W. F.	Blairmore	24	31-10-03
*Colville, A.	Edmonton	52	19- 1-05
Congdon, Milton H.	Blairmore	1	17- 7-40
Coulthard, R. W.	Blairmore (duplicate)	24	11-10-09
Coupland, Edward	Cadomin	56	24- 7-24
Crabb, Daniel J.	Lethbridge	13	13- 7-48
Cranston, Michael	Drumheller	35	2- 7-19
Crawford, Alexander	Alexo	61	24- 7-25
Crawford, Hugh	Lethbridge	5	11- 7-41
Crawford, John	Edmonton	65	26- 7-26
*Crowder, Harry	Edmonton	5	18- 9-14
*Crowder, James	Coleman	38	24-12-09
*Cumberford, James	Drumheller	80	19- 1-31
*Cunningham, G. F.	Edmonton	7	10- 1-08
D'Altroy, A. C.	Wayne	53	17- 8-23
Dalziel, Robert	Beverly	8	29- 7-33
D'Amico, Zupito	Nordegg	3	16- 7-49
*Darbyshire, J.	Bellevue	35	3-12-09
*Davidson, David	Bellevue	15	12- 8-16
Davidson, J. M.	Edmonton	75	23- 7-29
*Davidson, W. A.	Coleman	25	27-11-09
Davies, Thomas O.	Entrance	22	17- 7-17
*Davis, David	Coleman	62	28-11-11
deHart, Joseph B.	Coalhurst	86	29- 7-13
Dennis, Fred W.	Brooks	12	28-10-15
*Dickson, G. H.	Coleman	3	31- 5-06
Dickson, James	Victoria, B.C.	9	3- 3-47
Dinsdale, William	Telkwa, B.C.	1	14- 5-49
Donaldson, Adam G.	Shaughnessy	14	23- 8-37
Donaldson, Chris S.	Lethbridge	20	17- 7-17
Douglas, Peter S. Jr.	Cadomin	14	13- 7-48
*Drinnan, R. G.	Fernie, B.C.	29	30- 1-04
Duggan, William H.	Edmonton	85	29- 7-13
Dunn, A. C.	Edmonton	18	13- 1-09
Dunn, Robert A.	Nacmine	15	27- 8-43
Dutton, J. A.	Mountain Park	4	25- 7-32
Elliott, D.	Blairmore	20	13-10-03
*Ellis, William	Nanton	15	8- 1-09
Emmerson, C.	Bellevue	49	9- 1-05

LIST OF NAMES OF HOLDERS OF FIRST CLASS CERTIFICATES—Continued

Name	Address	Cert. No.	Date of Issue
Emmerson, J.	Canmore (duplicate)	41	25- 8-19
Erikson, Robert G.	Mercoal	6	19- 7-50
*Evans, D.	Michel, B.C. (duplicate)	14	11-12-02
Evans, Howell	Luscar	6	25- 7-46
*Ferguson, C. J.	Mountain Park	23	17- 7-17
*Finlayson, J.	Frank	30	10- 2-04
Flint, W. G.	Canmore	56	13- 4-05
Foster, William	Edmonton	40	12- 8-19
France, Thomas	Nordegg	44	8-10-19
*Fraser, G. L.	Coleman	1	31- 5-06
*Fraser, Norman	Michel, B.C.	1	21-12-05
Fraser, William B.	Coleman	1	16- 7-45
Gardner, H. H.	Coleman	9	18-12-34
Givin, Homer H.	Royal View	57	23-11-11
Goodwin, William	Bellevue	12	4- 8-36
Gotheridge, William T.	Round Hill	54	16- 7-24
Graham, C.	Nanaimo, B.C.	7	27- 2-06
Gray, David, Jr.	Cochrane	65	4-12-11
Green, R.	Blairmore	58	26- 4-05
Guernsey, F. W.	Bankhead	80	18-12-12
Hall, William E. G.	Coleman	58	20- 7-25
Hamilton, Allan	Blairmore	52	17- 8-23
Hamilton, Duncan C.	Luscar	7	15- 7-41
Hamilton, Robert	Lundbreck	4	3- 1-07
*Hamilton, W. L.	Passburg	4	2-12-98
*Hardie, W. D. L.	Lethbridge	2	15-10-98
*Hargreaves, James	Taber (duplicate)	48	9- 1-05
*Harrison, Stephen	Lethbridge	16	11- 1-09
Hart, John	Edmonton	23	23- 3-09
*Heathcote, Elijah	Coal Creek, B.C.	23	31-10-03
Heeley, William G.	Edmonton	36	3- 7-19
Henrietta, Charles M.	Byseville, U.S.A.	26	24-11-03
Hetherington, W. B.	Calgary	38	9- 7-19
Hibbert, W. J.	Edmonton (duplicate)	7	29- 7-33
Higgins, Alexander	Calgary	19	7- 7-17
Hnatyshyn, A. C.	Luscar	6	22- 3-33
*Holden, James	Bankhead	14	7- 1-09
Hooks, Albert	Calgary	11	18- 7-47
Hooyberg, Adrian	Blairmore	8	19- 7-50
Horne, James	Cadomin	21	21- 7-39
Horne, Robert	Coleman	12	7- 1-09
Horne, Thomas	Coleman	6	26-12-07
Howden, A. B.	Michel, B.C.	50	1- 8-21
Howells, Nathaniel	Bellevue	64	4-12-11
*Hunter, Alexander B.	Coleman	14	12- 8-16
*Huntrods, E. S. F.	Taber	3	29-12-05
*John, John	Fernie, B.C.	44	29- 4-04
*Johnson, Moses	Taber	79	14-11-12
Jones, Daniel	Robb	17	14- 7-44
Jones, David	Strathcona	67	27-11-11
*Jones, Griffith	Edmonton	63	21-10-25
Jones, J. R. B.	Edmonton	18	21- 7-38
*Jones, Samuel A.	Lethbridge	57	26- 4-05
*Jordan, William	Taber	11	9- 9-15
*Keith, Thomas	Taber	20	29- 1-09
*Kellock, George	Coleman	59	23-11-11
*Kellock, James	Coleman	76	8- 8-30
Kerr, Alex	Tonkin, B.C.	27	18-12-03
*Kinsman, Alexander	Hosmer, B.C.	70	11- 5-12
Knox, Thomas K.	Coal Creek, B.C.	28	30-11-09
Kubin, John J.	Luscar	9	19- 7-50
*Leblanc, Emile	Taber	6	18- 9-14
*Lee, Robert J.	Elcan	56	23-11-11
Lewellyn, D. R.	Michel, B.C.	42	2- 7-04
Lindoe, Luke	Coleman	77	8- 8-30
Little, John	Coalfields	5	2-12-98
Little, W. F.	Canmore	4	29-12-05
Lister, Arthur L.	Cadomin	3	18- 7-45
*Livingstone, Robert	Lethbridge	16	
Livingstone, R. D.	Lethbridge	7	29- 7-46
Manley, Henry L.	Fernie, B.C.	41	3- 6-04
*Marsh, John	Taber	6	1- 2-06
Marshall, John W.	Clover Bar	78	13-11-12
Marshall, Thomas	Calgary	8	13- 9-46
*Mather, Thomas	Bickerdike	81	20- 7-13
Maxwell, William	Pincher Creek	27	29-11-09
Melnyk, Nick	Cadomin	4	11- 7-41
Melson, Philip	East Coulee	2	16- 7-45
Millar, Andrew A.	Edmonton	54	23-11-11
Millar, David	Edmonton	2	25- 8-31
Miller, Henry	Rosedale	8	25- 7-41
Mills, Thomas	Nanaimo, B.C.	35	2- 5-04
Milne, Morgan C.	Pocahontas	83	24- 7-13

LIST OF NAMES OF HOLDERS OF FIRST CLASS CERTIFICATES—Continued

Name	Address	Cert. No.	Date of Issue
Moore, Samuel M.	Bankhead	26	27-11-09
Morgan, Evan H.	Wayne	3	27- 9-31
Morgan, Owen	Saunders (duplicate)	19	4- 5-45
Morgan, Thomas E.	Hillcrest	15	26- 8-37
*Morris, Cyrus	Frank	12	13- 2-02
*Morris, James J.	Canmore	3	3-11-98
Morris, William	Foothills	1	26- 7-31
Morrison, Edward	Fernie, B.C.	62	28- 9-25
*Morton, T. R.	Michel, B.C.	63	21- 7-05
Mrokwia, Victor, Jr.	Canmore	18	15- 7-44
Muir, Alexander	Alexo	6	11- 7-41
Musgrove, William	Canmore	76	11-11-12
Macaulay, Angus G.	Coleman	9	16- 8-15
*Macaulay, Donald A.	Coleman	42	9-12-10
MacKinnon, Hugh G.	Canmore	20	20- 7-39
McAndrew, John M.	Calgary	11	1- 8-42
McCullouch, James	Corbin, B.C.	41	17-12-10
McDonald, Duncan	Canmore	60	23-11-11
McDonald, H. S.	Bellevue	17	7- 7-17
*McDonald, John R.	Medicine Hat	29	30-11-09
McDonald, Leslie M.	Bellevue	23	28- 7-39
*McDonald, Noble M.	Bellevue	33	9- 7-18
*McEvoy, James	Fernie, B.C.	17	1- 8-03
McGuckie, Thomas M.	Wayne	43	1-10-19
McIntyre, John J.	Rosedale	39	25- 7-19
McKay, Walter	Michel, B.C.	10	28- 5-47
*McKelvie, James	Nordegg	7	26-10-14
McLean, Donald	Ladysmith, B.C.	62	22- 5-05
McLean, Michael D.	Michel, B.C.	68	30- 8-26
McLenhan, J. A.	Strathcona	39	13- 1-10
*McLeod, John A.	Bankhead	18	7- 7-17
*McMillan, J. H.	Lethbridge	17	12- 1-09
McMullen, Arthur	Nordegg	3	6-11-40
*McVicar, Samuel	Frank	59	26- 4-05
Nugent, Bernard	Drumheller	57	1- 8-24
*O'Donnell, Thomas	Kipp	61	28-11-11
Olynek, Edward	Bellevue	13	16- 7-51
Panchysyn, Edward J.	Blairmore	12	16- 7-51
*Parker, John L.	North Star	25	13-11-03
Pascoe, Thomas	Mountain Park	78	8- 8-30
*Pavier, Evan L.	Drumheller	24	24- 7-17
Pearson, Robinson	Fernie, B.C.	11	19-11-01
Pearson, R. N.	Frank	38	10- 5-04
Peta, Julius	Lethbridge	10	19- 7-50
Pickles, William	Cardiff	77	11-11-12
Pitcher, Norman C.	Lethbridge	75	11-11-12
Platt, John	Calgary	2	14- 5-49
Potter, Idwal N.	Willow Creek	22	25- 7-39
Powell, John W.	Coleman	60	10- 5-05
*Puckett, Owen L.	Drumheller	29	3- 7-18
Quigley, D. H.	Coalhurst	28	26- 6-18
*Quigley, James S.	Hillcrest	21	1- 2-09
Raisbeck, Luke	Taber	47	28-11-04
Ramsay, P. M.	Canmore	34	12-11-18
Rappell, Thomas	Canmore	17	1- 9-37
*Reed, Thomas	Northfield, B.C.	5	
Reid, Adam H.	Commerce	3	18- 9-14
Reid, John C.	Lethbridge	53	4-12-11
*Reynolds, E. E.	Lethbridge	33	5- 4-04
*Richards, Clifton C.	Bankhead	36	13-12-09
*Richards, James A.	Edmonton	39	17- 5-04
Richards, Russell	Nordegg	60	20- 7-25
Riva, Walter J.	Canmore	5	19- 7-50
Robert, Louis P.	Blairmore	10	16- 8-15
*Roberts, Edward I.	Strathcona	55	18-11-11
Robertson, John	Frank	2	22-12-05
*Robertson, John	Lundbreck	9	18- 1-08
Russell, James	Lethbridge	8	8-12-14
Russell, John	Clover Bar	44	22-12-10
*Russell, Thomas	Victoria, B.C.	45	28-10-04
Sandino, J. A.	Drumheller	5	25- 7-32
Saville, Enoch O.	Taber	45	22-12-10
Scott, Alex	Strathcona	5	26-12-07
Scott, A. N.	Edmonton	19	25- 1-09
Scott, Thomas W.	Cadomin	67	17- 8-26
Shanks, David	Nordegg	16	4-11-16
*Shanks, John	Coal Creek, B.C.	51	17- 1-11
*Sharp, Alex	Rossland, B.C.	53	22- 2-05
Shaw, Robert	Blairmore	5	1- 8-45
*Shaw, William	Canmore	46	22-12-10
Shepherd, F. H.	Victoria, B.C.	34	2- 5-04
*Shone, Samuel	Coleman	33	2-12-09
Simister, Charles	Fernie, B.C.	21	13-10-03

LIST OF NAMES OF HOLDERS OF FIRST CLASS CERTIFICATES—Continued

Name	Address	Cert. No.	Date of Issue
*Smith, Frank B.	Edmonton	7	4- 6-01
Smith, Terence	Edmonton	10	1- 8-35
Smith, Thomas E.	Coalhurst	31	3- 7-18
Sparrow, Edwin	Lundbreck	13	7- 1-09
Stevens, Leonard C.	Coal Creek	31	2-12-09
Stevenson, John	Lethbridge	68	6-12-11
Stevenson, John	Hillcrest	46	26- 7-20
Stevenson, William, Jr.	Pinto, Sask.	87	29- 7-13
Stewart, James M., Jr.	Nordegg	48	26- 7-20
*Stewart, R. T.	Fernie, B.C.	50	12- 1-11
*Stirling, John T.	Edmonton	8	16- 1-08
*Stockett, Lewis	Bankhead	51	19- 1-05
Stockett, Thomas R., Jr.	Nanaimo, B.C.	10	19-11-01
*Strachan, Robert	Fernie, B.C.	31	10- 2-04
Symons, C. C.	Coalfields	37	2- 5-04
Tennant, Robert	Coleman	59	20- 7-25
*Thain, Harry S.	Lethbridge	34	2-12-09
Thomas, David R.	Edmonton	2	12-10-40
Thomas, John Ira	Edmonton	49	16- 1-11
*Thomas, Joseph D.	Passburg	66	4-12-11
Thomas, Willis P.	Diamond City	58	23-11-11
Thomson, John	Edmonton	9	17- 7-42
Thorne, B. L.	Hosmer, B.C.	32	2-12-09
Touhey, James B.	Drumheller	19	27- 7-38
*Turner, John T.	Coalhurst	49	1- 8-21
Vivyurka, John	Wabamun	4	26- 7-45
Waite, Archibald	Taber	15	9- 4-03
*Wall, W. H.	Nanaimo, B.C.	32	10- 2-04
*Wark, S. D.	Passburg	37	15-12-09
Watson, Ronald H.	Mountain Park	37	3- 7-19
*Watson, William	Coleman	73	7-11-12
Watters, Alexander G.	Bankhead	32	5- 7-18
Watters, John	Bankhead	30	30-11-09
*Weatherby, C.	Coleman	2	31- 5-06
*Welch, James D.	Nordegg	1	18- 9-14
White, E. Proctor	Lethbridge	8	17- 6-01
White, James B.	Nordegg	15	13- 7-48
*Whiteside, O. E. S.	Coleman	6	15-12-98
Whittaker, W. C.	Nordegg	74	29- 7-28
*Wilkinson, George	Victoria, B.C. (duplicate)	45	21-11-19
*Willey, Edward	Fernie, B.C.	71	1-11-12
Williams, Arthur E.	Saunders	69	1- 8-27
Williams, Thomas B.	Canmore	2	18- 9-14
Williams, T. H.	Taber	10	18- 1-08
*Williams, W. P.	Blairmore	36	2- 5-04
Wilson, Andrew	Coleman	70	1- 8-27
Wilson, Arthur R.	Lethbridge	28	12- 1-04
*Wilson, David G.	Hosmer, B.C.	22	31-10-03
Wilson, William	Edmonton	72	19- 7-28
Wilton-Clark, H.	Coleman	66	26- 7-27
Worthington, W. T.	Edmonton	16	26- 8-37
Worthington, Willard T., Jr.	Edmonton	4	16- 7-49
*Wright, H. B.	Fernie, B.C.	40	25- 5-04
*Wyllie, John B.	Frank	13	25-11-02
Yates, Frank	Michel, B.C.	73	29- 7-28
Young, David B.	Rosedale	64	26- 7-26

* Deceased.

LIST OF NAMES OF HOLDERS OF SECOND CLASS CERTIFICATES

Name	Address	Cert. No.	Date of Issue
Adams, Thomas H.	Coalhurst	127	26- 7-20
Adlam, William	Hillcrest	107	15- 7-19
Ainsworth, John H.	Halkirk	25	24- 7-42
Alexander, William	Bellevue	68	30- 7-38
Allen, Edgar	Coleman	16	18- 7-46
*Allen, Peter	Coleman	72	20-12-11
Allen, William C.	Edmonton	22	7- 9-15
*Anderson, J.	Bellevue	2	30- 5-06
*Anderson, Peter B.	Mountain Park	139	26- 7-20
Anderson, William	Coleman	44	13- 7-48
*Armstrong, John	Nordegg	110	16- 7-19
Aschacker, Martin	Blairmore	17	20- 1-42
Ashman, Alfred W.	Calgary	88	3- 7-19
Ashurst, William	Coleman	51	17- 7-17

LIST OF NAMES OF HOLDERS OF SECOND CLASS CERTIFICATES—Continued

Name	Address	Cert. No.	Date of Issue
Aspinall, Francis	Bellevue	27	27- 5-08
Atherton, Edward	Mountain Park	49	17- 7-17
Badham, Thomas	Coleman	104	15- 7-19
Baich, Victor	Luscar	1	16- 7-45
Bainbridge, George E.	Nordegg	183	12-12-24
Bainbridge, James	Medicine Hat	112	5- 8-19
Baines, Arthur	Lethbridge	41	13- 7-48
Balkwill, F. W.	Hillcrest	20	17- 7-42
Ball, Benjamin	Michel, B.C.	101	8- 7-19
Bamling, J.	Diamond City	44	2-12-09
Barclay, Andrew	Frank	111	18-11-12
Barclay, Peter	Rosedale	4	3- 8-40
Barclay, William	Rowley	54	10- 8-17
Barrie, John	Drumheller	8	26- 7-31
Barrowman, Alexander	Ardley	182	14-11-24
*Bastian, J.	Taber	21	7- 5-04
Bastian, T. W.	Bankhead	27	8- 4-05
Baybutt, Thomas	Hillcrest	168	17- 8-23
Bell, William	Canmore	7	16- 7-49
Berford, Edward	Commerce	27	12- 8-16
Bianchini, Meno J.	Hillcrest	29	18- 7-47
Bilson, George H.	Beverly	2	27- 8-14
Birse, Alexander	Coalhurst	185	20- 7-25
Blair, John	Edmonton	72	11- 7-18
Blake, Henry	Bellevue	128	31- 7-13
Blake, Raymond	Bellevue	28	12- 8-42
Blas, Emile	Bellevue	169	17- 8-23
Blasetti, Angelo	Nordegg	17	19- 7-46
Boucher, Charles T.	Wayne	175	16- 7-24
Boughton, C. A.	Rosedale	10	25- 7-32
Bovio, M.	Bellevue	61	5- 7-18
Bowie, J.	Frank	4	3- 1-07
Bradley, Thomas	Bellevue	166	17- 8-23
Bradshaw, Richard	East Coulee	8	12- 7-41
Brady, John	Edmonton	141	26- 7-20
Brearley, Garnett	Coalhurst	78	23- 7-18
Bridge, Edward	Bellevue	99	5-11-12
Briggs, William A.	Drumheller	154	10-10-21
Brisco, Daniel	Hillcrest	19	21- 8-15
Brockhouse, I. B.	Milk River	74	20-12-11
Brooks, Burton T.	Drumheller	129	26- 7-20
Brown, Alan J.	Pocahontas	105	7-11-12
Brown, John	Canmore	13	18- 7-46
Brown, John D. B.	Mountain Park	55	4-11-36
Brown, J. F.	Edmonton	84	28- 6-19
Brown, Richard G.	Cadomin	192	30- 7-26
Brown, Thomas	Edmonton	55	17-11-17
Brown, William	Commerce	126	31- 7-13
*Brownrigg, John H.	Bankhead	21	30- 8-15
Burrell, Archibald K.	Drumheller	37	26- 7-34
Burton, James	Luscar	13	25- 7-32
Burton, John T.	Edmonton	212	23- 7-29
Burton, William H.	Entwistle	194	6- 8-26
Camarta, John	Cardiff	50	20- 7-44
Campbell, James	Calgary	94	20-12-40
Campbell, K. S.	Blairmore	132	31- 7-13
Campbell, Thomas	Drumheller	174	16- 7-24
Carmichael, Malcolm	Canmore	65	21- 7-38
*Carr, Roy	Cadomin	55	28-11-44
Carr, Thomas	Pocahontas	117	1-10-19
Carruthers, Edward M.	Blairmore	14	19- 7-50
Carson, James	Edmonton (duplicate)	16	25- 9-41
Cartwright, Charles E.	Lundbreck	85	2- 7-19
Castella, Jens	Standard	35	23- 7-34
Caufield, J.	Coal Creek, B.C.	105	15- 7-19
Chavignaud, Louis G.	Luscar	195	17- 8-26
Chestnut, C.	Blairmore (duplicate)	30	18- 4-05
*Clark, J. C.	Blairmore	49	22-12-09
Clark, Robert	Hardieville	43	7 -7-17
Clarkstone, W. W.	Fernie, B.C.	93	3- 7-19
Clay, E.	Oxville	28	7- 1-09
Clemenson, John	Bankhead	58	17-12-10
*Clyne, James	Canmore	53	22- 4-10
Clyne, James M.	Edmonton	42	18- 7-35
Cole, J. J.	Bankhead	126	26- 7-20
Comin, Silvio	Bellevue	6	16- 7-49
Congdon, Milton H.	Blairmore	158	1- 8-22
Conlin, John	Drumheller	33	22- 8-16
Cooke, Charles R.	Willow Creek	30	22- 4-43
Cooke, Joseph	Burmis	66	20- 2-11
*Corkill, T.	Michel, B.C.	13	.....
Coupland, Edward	Bellevue	8	18- 9-14
Coupland, George	Lundbreck	77	21-12-11

LIST OF NAMES OF HOLDERS OF SECOND CLASS CERTIFICATES—Continued

Name	Address	Cert. No.	Date of Issue
Courterelle, Allan F.	Drumheller	11	20- 8-45
Coutes, George	Lethbridge	20	26- 8-15
Cox, John C.	Coleman	42	7- 7-17
Crabb, Daniel J.	Lethbridge	21	17- 7-42
*Crabb, Samuel A. B.	Lethbridge	52	17- 7-17
Cranston, Michael	Pocahontas	119	29- 7-13
Crawford, Alexander	Beaver Mines	125	31- 7-13
Crawford, Charles	Edmonton	48	13- 7-48
Crawford, Hugh	Lethbridge	85	12- 8-39
Crawford, James	Spruce Grove	9	16- 7-49
Crawford, John	Lovett	64	6- 7-18
Crawford, William S.	Lethbridge	66	9- 7-18
*Crowder, Harry	Coleman	69	18-12-11
*Crowder, James	Coleman	10	26-12-07
Currie, Campbell	Drumheller	13	19- 7-50
Curry, John	Hillcrest	86	12- 8-39
D'Altroy, A. C.	Milk River	145	1- 8-21
Dalziel, Robert	Clover Bar	122	31- 7-13
Davey, George	Rosedale	209	29- 7-28
Davey, William H.	Michel, B.C.	4	16- 7-49
Davidson, Albert M.	Brule	202	20-12-27
*Davidson, David	Blairmore	94	1-11-12
Davidson, John M.	Clover Bar	187	1- 8-25
Davies, D.	Coleman	31	18- 4-05
Davies, John	Coleman	11	26-12-07
Davies, J. C. H.	Blakeburn, B.C.	219	10- 9-30
Davies, S.	Coal Creek, B.C.	18	10- 1-08
Davies, Thomas O.	Pincher Creek	104	7-11-12
*Davies, T.	Frank	54	22- 4-10
Davis, A.	Lethbridge	4	19-11-98
Davis, John	Lethbridge	31	11- 1-09
Deere, G. E.	Foothills	214	23- 7-29
Dennis, F. W.	Lethbridge	3	27- 8-14
Devernichuk, Mike	Lethbridge	16	19- 7-50
Dewar, Alexander	Coleman	16	16- 8-15
Dieter, W. J.	Sheerness	167	17- 8-23
*Digman, John H.	Coalhurst	134	31- 7-13
Dixon, John O.	Longview	220	10- 9-30
Dixon, S.	Lille	24	8- 2-08
Dobson, Roy C.	Lethbridge	27	4- 8-42
Dolanz, Iggie	Heisler	46	18- 8-44
Donaldson, Adam G.	Lethbridge	40	13- 8-34
Donaldson, C. S.	Lethbridge	35	25- 8-16
Donaldson, Matthew W.	Shaughnessy	33	18- 7-47
Douglas, Horace L.	Cadomin	12	19- 7-50
Douglas, Peter S. Jr.	Cadomin	93	22- 4-40
Dropko, William	Drumheller	48	18- 8-44
Duggan, R. G.	Taber	19	26- 4-04
Duncan, David R.	Nordegg	18	19- 7-46
Duncan, N. S.	Wayne	100	8- 7-19
Dunn, J. P.	Strathcona	9	26-12-07
Dunn, Robert	Willow Creek	6	12- 8-40
Dutton, Joseph A.	Edmonton	198	1- 8-27
*Eccleston, W.	Michel, B.C.	16	10- 1-08
Edwards, John	Cadomin	7	26- 7-31
Edwards, Mark	East Coulee	50	7- 8-36
Edwards, Oliver E.	Cadomin	53	12- 8-36
Elkes, Frederick W.	Drumheller	33	23- 7-34
Ellison, Frederick	Drumheller	36	18- 7-47
Embree, Merton B.	Evansburg	98	3- 7-19
Emerson, C.	Bellevue	3	15-11-98
Emmerson, Charles A.	Bellevue	35	18- 7-47
Erikson, Gustaf W.	Blairmore	81	25- 7-39
Esteban, Melchor	Calgary	59	23- 8-37
Evans, Howell	Luscar (duplicate)	77	23- 3-39
Evans, Thomas R.	Coleman	137	31- 7-13
Farmer, James	Drumheller	31	17- 7-47
Fawcett, Elmer E.	Cardiff	51	7- 8-36
*Ferguson, C. J.	Mountain Park	38	30- 8-16
Finlay, Samuel	Clover Bar	25	12- 8-16
Fisher, John M.	Shaughnessy	30	18- 7-47
Flint, W. G.	Canmore	16	.....
Ford, Allen	Michel, B.C.	146	1- 8-21
Fortner, Edward	Saunders	57	3- 7-18
Foster, William	Pocahontas	14	16- 8-15
Foster, W. R.	Michel, B.C.	51	24- 1-10
Fox, Alfred A.	Canmore	63	12-11-37
Fox, A.	Taber	42	29-11-09
Fox, Benjamin	Carbon	49	22- 7-44
France, Thomas	Nordegg	67	9- 7-18
Francis, J.	Taber	29	8- 1-09
Fraser, Alex	Carmangay	221	10- 9-30
*Fraser, G. L.	Coleman	25	23-12-04

LIST OF NAMES OF HOLDERS OF SECOND CLASS CERTIFICATES—Continued

Name	Address	Cert. No.	Date of Issue
Fraser, James	Rosedale	133	26- 7-20
Fraser, William B.	Coleman	31	14- 7-43
Fridel, Stephen	Edmonton	69	30- 7-38
Fry, George H.	Hillcrest	3	16- 7-49
Fulton, James K.	Coleman	133	31- 7-13
Fyfe, Walter H.	Wayne	142	26- 7-20
Fyvie, J.	Drumheller	109	16- 7-19
Gallagher, John	Rosedale	43	14- 7-44
Galvon, Joseph J.	Blairmore	21	16- 7-51
Garbett, Richard	Corbin, B.C.	100	5-11-12
Garrett, John	Blairmore	123	31- 7-13
*Gate, Harry	Coleman	124	26- 7-20
Gibson, George	Blairmore	54	13- 7-48
Gidman, Joseph H.	Taber	165	29-12-22
Giffen, H. R.	Coalfields	14	1903
Gilliland, William	Strathcona	61	17-12-10
Gilmour, John	Drumheller	222	9- 2-31
Givens, John	Pocahontas	99	8- 7-19
Gladwin, Lewis C.	Saunders	22	18- 7-42
Goodwin, Albert E.	Bellevue	72	26- 8-38
Goodwin, George W.	Bellevue	2	26- 7-31
Goodwin, William	Bellevue	9	26- 7-31
*Gordon, Thomas	Drumheller	184	27- 5-25
Gotheridge, W. V.	Round Hill	43	24- 7-35
Graham, John	Coaldale	157	1- 8-22
Grant, Alexander	Hillcrest	24	22- 7-42
Green, R.	Blairmore	17	26- 4-04
Greenhalgh, R. M.	Coleman	11	25- 7-32
Griffiths, Edward	Foothills	1	3- 8-40
Hall, James	Coal Creek, B.C.	190	26- 7-27
Hall, Oliver	Bellevue	26	23-12-04
Halliday, George W.	Delia	31	22- 8-16
Hallworth, Albert	Bellevue	65	30- 1-11
Hamilton, Allan	Bellevue (duplicate)	1	1- 4-14
Hamilton, John	Delia	18	10- 8-32
Hamilton, Joseph J.	Lethbridge	164	9- 9-22
Hamilton, Thomas M.	Blairmore	34	23- 7-34
Hargreaves, G.	Lethbridge	70	9- 7-18
Harpham, H. A.	Clover Bar	21	9- 9-46
Harries, Henry C.	Coleman	9	18- 9-14
Harries, John	Wayne	213	23- 7-29
Hartley, William	Bankhead	114	25-11-12
Harvie, Robert	Lethbridge	1	30- 5-06
Hastings, Andrew P.	Bankhead	62	5- 7-18
Heap, Robert	Coalhurst	137	26- 7-20
Heathcote, Joseph	Edmonton	10	18- 9-14
Hedges, Richard	Beverly	111	18- 7-19
Heeley, William G.	Bickerdike	80	22-12-11
Heidel, Herbert G.	Priddis	26	1- 8-42
Henderson, A. J.	Luscar	7	20- 7-45
Henry, William B.	Newcastle	76	9-11-38
Herman, J. R.	Mountain Park	19	20- 7-46
Heyworth, Ernest S.	Edmonton	45	2- 6-36
Hibbert, William J.	Coleman	191	26- 7-27
Higney, John	Coalhurst	130	26- 7-20
Hill, Ernest	Coleman	57	16- 8-37
Hill, James	Lethbridge	84	13- 1-12
Hilliary, Joseph	Bellevue	49	7- 8-36
Holliday, Thomas	Drumheller	71	17- 8-38
Holmes, Robert	Coleman	144	6- 1-21
Hooks, Albert	Drumheller	38	26- 7-34
Hooyberg, Adrian	Blairmore	2	16- 7-49
Horkulak, A. H.	Edmonton	39	14- 7-44
Horne, Robert	Coleman	12	26-12-07
Horswell, John	Cardiff	34	1- 2-09
Howells, Nathaniel	Michel, B.C.	55	25- 5-10
Hucik, Louis T.	Blairmore	20	29- 7-46
Hughes, Daniel J.	Diamond City	110	13-11-12
Hughes, John C.	New Mexico	156	15-12-21
Hughes, William R.	Calgary	13	6- 8-15
Hulbert, Havelock A.	Coleman	31	23- 7-34
*Hulme, Charles	Rocky Mountain House	63	6- 7-18
*Hunter, Alexander B.	Coleman	7	18- 9-14
Hunter, Charles	Beverly	4	18- 9-14
Hunter, Henry	Edmonton	102	7-11-12
Hutchinson, A. M.	Coleman	6	3- 1-07
Hutchinson, P.	Bankhead	102	10- 7-19
Hutton, David T.	Bellevue	44	10- 7-17
Hutton, John	Bellevue	93	1-11-12
Ironmonger, John	Hillcrest	60	5- 7-18
Ivanchuk, Michael P.	Edmonton	22	16- 7-51
Jackson, James	Bellevue	56	3- 7-18
*James, William	Pocahontas	5	18- 9-14
James, William	Mercoal	10	16- 7-49

LIST OF NAMES OF HOLDERS OF SECOND CLASS CERTIFICATES—Continued

Name	Address	Cert. No.	Date of Issue
Joberg, A. F.	Delia	68	9- 7-18
*Johnson, Moses	Taber	46	3-12-09
Johnstone, Alexander	Edmonton	7	11- 7-41
*Jones, C. E. R.	Cardiff	83	12-11-18
Jones, Daniel	Camrose	178	24- 7-24
Jones, David	Strathcona	48	15-12-09
Jones, D.	Coalhurst	116	5- 9-19
Jones, Elias	Coleman	16	25- 7-32
*Jones, Illtyd	Edmonton	197	1- 8-27
Jones, John C.	Saunders	35	20- 7-43
Jones, Peter	Lethbridge	92	1-11-12
*Jones, Samuel A.	Lethbridge	18	26- 4-04
Jones, William	Rosedale	10	30- 7-45
*Jordan, William	Taber	112	20-11-12
Kaye, Hershel	Pocahontas	129	31- 7-13
Keith, John D.	Coalhurst	107	11-11-12
*Kellock, George	Coleman	39	27-11-09
*Kellock, James	Coleman	82	30-12-11
Kenakin, Peter	Rosedale	45	13- 7-48
Kennedy, Joseph	Willow Creek	47	31- 7-36
Kennedy, William	Coleman	4	17- 7-45
Kerr, John	Coalfields	33	6- 7-05
Kerr, W. R.	Nordegg	115	2- 9-19
Kubin, John, J.	Coleman	32	14- 7-43
Lamond, David	Evansburg	36	20- 7-43
Larrair, Charles F.	Drumheller	74	12- 7-18
Lavis, George	Drumheller	218	10- 9-30
*Leblanc, Emile	Taber	127	31- 7-13
*Lee, Robert J.	Grassy Lake	56	17-12-10
Letcher, William M.	Bankhead	96	1-11-12
Lindoe, Luke	Coleman	170	1- 9-23
Lister, Alexander B.	Edmonton	49	13- 7-48
Lister, Arthur L.	Cadomin	14	25- 7-41
Littler, James	Michel, B.C.	200	12- 8-27
Littler, Robert	Bankhead	6	18- 9-14
*Livingstone, J. C.	Lethbridge	5	19-11-98
*Livingstone, Robert	Lethbridge	6	5- 6-99
Lloyd, James H.	Blairmore	12	25- 7-41
Lonsbury, William P.	Coleman	15	18- 7-46
Looten, Henry	Newcastle	42	14- 7-44
Louhela, Sulo	Canmore	1	16- 7-49
Lowrie, Ralph	Frank	34	6- 7-05
Luck, George	Bellevue	70	19-12-11
Luini, Louis	Hillcrest	51	13- 7-48
Lundy, James	Drumheller	53	17- 7-17
Mackie, John	Bankhead	136	26- 7-20
Makin, J. W.	Hillcrest	103	15- 7-19
March, John	Edmonton	22	2- 8-46
Marconi, Gordon V.	Coleman	27	18- 7-47
Marconi, John T.	Coleman	14	18- 7-46
Marsh, E.	Taber	113	25- 8-19
Marsh, John H.	Taber	153	1- 8-21
Marsh, Walter	Drumheller	20	21- 9-32
*Martin, Henry Sr.	Saunders	203	29- 2-28
*Martin, R.	Taber	114	25- 8-19
Mason, Samuel	Blairmore	130	31- 7-13
Massey, Harry	Corbin, B.C.	116	25-11-12
Mather, John	Mountain Park	23	19- 9-15
Mather, John H.	Namao	38	9- 9-43
*Mather, Richard	Edmonton	29	10- 8-42
Mather, Stanley	East Coulee	8	23- 7-45
*Mather, Thomas	Bickerdike	106	11-11-12
Mattson, Ailie E.	Bellevue	11	16- 7-49
May, John	Edmonton	26	29- 7-33
Mayoh, Daniel	East Coulee	48	7- 8-36
Melling, Joseph	Lethbridge	82	25- 7-39
Melling, Peter	Coalhurst	28	12- 8-16
Melson, Philip	East Coulee	45	15- 7-44
Menzies, William	Drumheller	40	14- 7-44
Meyers, August	Drumheller	172	18-12-23
Miard, Harry E.	Coal Creek, B.C.	64	16- 1-11
Millar, David	Mercoal	204	19- 7-28
Miller, Henry	Taber	75	13-10-38
Miller, John K.	Drumheller (duplicate)	210	24-11-28
Miller, John R.	Aerial	131	26- 7-20
Miller, Walter	Bellevue	26	12- 8-16
Mills, Basil	Shaughnessy	84	12- 8-39
Mitchell, Robert A.	Luscar	28	18- 7-47
Mitchell, Thomas	Luscar	43	13- 7-48
Molnar, Vendel S.	Hillcrest	53	13- 7-48
Moore, Thomas E.	Eyremore	47	11-12-09
Moran, James	Edmonton	46	28- 7-36
*Morgan, Daniel	Edmonton	17	10- 1-08
Morgan, Dewi R.	Bellevue	40	11- 5-48

LIST OF NAMES OF HOLDERS OF SECOND CLASS CERTIFICATES—Continued

Name	Address	Cert. No.	Date of Issue
Morgan, Evan H.	Coleman	215	23- 7-29
Morgan, Owen	Blairmore	121	29- 7-13
Morgan, Thomas E.	Hillcrest	27	22- 8-33
*Morris, John	Lundbreck	8	3- 1-07
Morris, John D.	Hillcrest	17	19- 7-50
Morrison, Neil A. P.	East Coulee	37	20- 7-43
Mossey, Robert	Frank	173	16- 7-24
Mossey, Thomas	Lethbridge	95	3- 7-19
Mrokwia, Victor Jr.	Canmore	2	3- 8-40
Muir, Alexander	Alexo	67	27- 8-38
Muir, David	Pincher Creek	108	11-11-12
Munro, William K.	Blairmore	76	21-12-11
Murphy, Peter J.	Clover Bar	91	24- 8-12
Murray, J.	Coalhurst	90	3- 7-19
Musgrove, Harry B.	Canmore	60	23- 8-37
*Musgrove, John	Canmore (duplicate)	9	25- 4-01
Musgrove, William	Canmore (duplicate)	32	6- 7-05
MacAskill, Donald	Drumheller	77	16- 7-18
MacDonald, James A.	Bellevue	79	21-12-11
MacDonald, J. H.	Edmonton	48	10- 7-17
MacDonald, L. M.	Bellevue	217	10- 9-30
MacDonald, William	Drumheller	155	10-10-21
MacKay, Angus	St. Albert	81	26-12-11
McAndrew, J. M.	Calgary	64	19- 7-38
McCullough, Alex	Coleman	143	10- 8-20
McCutcheon, J. A.	Midlandvale	58	19- 8-37
McDonald, Clyde P.	Bellevue	1	26- 7-31
McDonald, Duncan	Canmore	60	17-12-10
*McDonald, Hector S.	Bellevue	17	16- 8-15
McDonald, J. O. C.	Coleman	15	16- 8-15
McDonald, Kenneth L.	Bellevue	23	27- 9-46
*McDonald, Noble M.	Bellevue	18	16- 8-15
McDonald, Thomas	Rosedale	41	14- 7-44
*McDonald, William I.	Willow Creek	9	12- 7-41
McFegan, William	Hillcrest	34	22- 8-16
McGaw, Albert M. S.	Carmangay	171	15- 9-23
McGowan, John M.	Newcastle	36	26- 7-34
McGregor, Alex	Frank	1	20-12-05
McGregor, Thomas B.	Lethbridge	19	10- 8-32
McIntyre, Arnold J.	Mercoal	47	13- 7-48
McIntyre, John J.	Lovett (duplicate)	41	9-12-16
*McKay, Donald	Bankhead	3	30- 5-06
McKean, John W.	Lethbridge	24	23-12-04
*McKelvie, James	Hosmer, B.C.	43	29-11-09
McKenna, Peter	Cadomin	161	1- 8-22
McKinnon, H. G.	Canmore	76	13- 7-18
McKinnon, John L.	Coleman	80	26- 7-18
McLafferty, D.	Hillcrest	53	18- 8-44
McLean, Michael D.	Michel, B.C.	122	26- 7-20
McLellan, John A.	Wabamun	24	2-11-15
McLenhan, John A.	Strathcona	33	1- 2-09
*McLeod, Alexander	Drumheller	149	1- 8-21
McMillan, Donald	Pincher Creek	71	20-12-11
McMullen, Arthur	Nordegg	66	21- 7-38
McQueen, Alexander	Mercoal	2	16- 7-45
McQueen, Andrew	Nordegg	71	9- 7-18
*McVicar, Samuel	Frank	23	23-12-04
Nanson, Thomas H.	Bellevue	40	25- 9-16
Nicol, George	Pocahontas	46	10- 7-17
*Nicol, James	Frank	36	10- 2-09
*Novak, Mike	Milk River	32	23- 7-34
Nugent, Bernard	Taber	73	11- 7-18
Oakes, Robert	Blairmore	17	25- 7-32
Oliphant, John T.	Medicine Hat	153	1- 8-21
Oliphant, Joseph H.	Bellevue	59	17-12-10
Ostheidt, Gus	Bankhead	1	14-11-98
Ostler, James	Taber	160	1- 8-22
Ottewell, Cedric P.	Clover Bar	193	6- 8-26
Ottewell, William J.	Clover Bar	176	16- 7-24
Park, Angus	Edmonton	15	28- 7-41
Park, Stewart G.	Lethbridge	57	17-12-10
Park, William	Bellevue	65	6- 7-18
Parker, Jack	Cardiff	52	6- 8-36
Parker, Levi	Bellevue	68	28- 4-11
Parry, Thomas	Coleman	109	12-11-12
Parsons, T. Lloyd	Edmonton	26	21- 3-08
*Pavier, Evan L.	Coleman	37	30- 8-16
Peacock, Charles	Lethbridge	138	26- 7-20
Pearson, W. G.	Frank	15	26- 4-04
Pembleton, George W.	Evansburg	97	3- 7-19
Penman, John S.	Rosenroll	120	29- 7-13
Peta, Frank	Lethbridge	8	16- 7-49
Peta, Julius	Hardieville	90	23-10-39
Pettigrew, Robert	Corbin, B.C.	30	27- 4-34
*Phillips, Charles	Frank	20	26- 4-04
Pickles, William	Edmonton	35	1- 2-09

LIST OF NAMES OF HOLDERS OF SECOND CLASS CERTIFICATES—Continued

Name	Address	Cert. No.	Date of Issue
Picton, Daniel	Passburg	118	10- 2-13
Potter, I. N.	Nacmine	44	15- 8-35
Powell, Albert E.	Strathcona	85	16- 1-12
Prendergast, Denis	Brule	188	26- 7-26
Prentice, John	Lille	45	2-12-09
Price, Stanley R.	Blairmore	79	25- 7-39
*Puckett, Owen L.	Drumheller	50	17- 7-17
Queen, Andrew M.	Lethbridge	124	31- 7-13
Quigley, Daniel H.	Lethbridge	73	20-12-11
Quin, James	East Coulee	23	29- 7-33
*Radford, James	Bellevue	140	26- 7-20
Radford, James T.	Bellevue	52	13- 7-48
Raisbeck, R. M.	East Coulee	47	18- 7-44
Ramsay, MacDonald	East Coulee	18	16- 7-51
Ramsay, Peter M.	Lethbridge	86	24- 2-12
Rankin, George	Michel, B.C.	41	29-11-09
Rappel, Thomas	Canmore	206	19- 7-28
Rawlinson, R.	Edmonton	32	22- 8-16
Rear, Albert	Coleman	56	15-12-36
Redpath, James	Wayne	147	1- 8-21
Reed, Edward	Drumheller	135	26- 7-20
Reed, John C.	Edmonton	3	16- 7-45
Rees, Daniel	Blairmore	189	26- 7-26
Rice, Awrey	Frank	2	20-12-05
Richards, Evan	Evansburg	59	3- 7-18
Richards, Samuel	Corbin, B.C.	98	5-11-12
Riordan, Leo	Canmore	19	17- 7-42
Roberts, D. E.	Coleman	14	10- 1-08
Roberts, D. O.	Wayne	86	2- 7-19
*Roberts, E.	Bellevue	87	2- 3-12
*Roberts, E. I.	Strathcona	52	12- 3-10
Roberts, G.	Taber	79	23- 7-18
Roberts, John	Bellevue	12	26-10-14
Robertson, Duncan	Drumheller	29	10- 3-34
Robinson, William	Drumheller	30	22- 8-16
Rochester, Jasper J.	Hinton	78	20- 7-39
Rolfe, E.	Hillcrest	211	4- 2-29
Ruffell, Alfred	Lethbridge	180	11- 8-24
Russell, John	Wayne	29	12- 8-16
Samis, Earl L.	Namao	62	30- 9-37
Sandino, J. A.	Hillcrest	91	3- 7-19
Sarsfield, William	East Coulee	83	28- 7-39
Saunt, James	Edmonton	123	26- 7-20
Scarpino, Eugene M.	Rosedale	5	4- 9-40
Scarpino, F.	Fernie, B.C.	121	26- 7-20
Schmidt, Otto P.	Camrose	115	25-11-12
Schymizek, John	Wabamun	38	18- 7-47
Scott, Alexander	Pocahontas	103	7-11-12
Scott, Andrew N.	Edmonton	19	10- 1-08
*Scott, Frederick G.	Brule	128	26- 7-20
*Scott, Hugh	Lethbridge	7	9- 3-00
Senycz, John J.	Bellevue	37	18- 7-47
Sequin, Joseph A.	Estevan, Sask.	22	16- 4-04
Shanks, David	Coal Creek, B.C.	117	7-12-12
Shaw, Joseph H.	Kimberley, B.C.	196	22- 9-26
Shaw, Robert	Coleman	70	2- 8-38
Shaw, Thomas J.	Canmore	75	21-12-11
*Shaw, William	Canmore	21	18- 1-08
Shaw, William G.	Nordegg	177	24- 7-24
Shearer, John C.	Hillcrest	33	20- 7-43
Shephard, William L.	East Coulee	34	18- 7-47
*Shone, Samuel	Coleman	23	23- 1-08
Sihvon, William	Bellevue	40	29-11-09
Simmons, Harry	Mountain Park	89	14- 9-39
Simpson, William G.	Drumheller	45	10- 7-17
Sinclair, James	Drumheller	81	7- 8-18
Sinoski, Steve	Edmonton	80	25- 7-39
Sloan, Thomas W.	Burmis	67	2- 3-11
Smillie, John	Foothills	20	16- 7-51
Smillie, Walter	Drinnan	44	14- 7-44
Smith, Peter	Coleman	39	13- 8-34
Smith, Terence	Beverly	205	19- 7-28
Smith, Thomas E.	Yetwood	39	14- 9-16
Snow, Percy E.	Morley	24	4-12-46
Sparrow, Edwin	Lundbreck	7	3- 1-07
Steele, Francis M.	Pincher Creek	125	26- 7-20
Steele, Thomas	Coleman	12	26- 4-04
Stene, Alexander	Mountain Park	5	16- 7-49
Stephenson, Joseph	Bellevue	135	31- 7-13
Stephenson, Thomas	Bellevue	136	31- 7-13
Stevenson, John	Lethbridge	47	10- 7-17
Stevenson, Robert	East Coulee	13	25- 7-41
Stewart, James M. Jr.	Fernie, B.C.	50	24-12-09
Stocco, Reno	Drumheller	25	18- 7-47
Strang, David	Mountain Park	15	25- 7-32
Stratton, J. M.	Taber	94	3- 7-19
Stratton, Robert	Wabamun	39	18- 7-47

LIST OF NAMES OF HOLDERS OF SECOND CLASS CERTIFICATES—Continued

Name	Address	Cert. No.	Date of Issue
Strecker, John	Rosedale	32	18- 7-47
Strickland, Thomas	Three Hills (duplicate)	54	16-10-36
Strickland, William	East Coulee	11	14- 7-41
Surrendi, Nick	Wayne	6	18- 7-45
Sutherland, S. R.	Bellevue	28	22- 8-33
*Swan, John	Edmonton	12	25- 7-32
Talbot, Walter	Clover Bar	207	29- 7-28
Tamborini, Bruno	Bellevue	50	13- 7-48
Tanner, Moore G.	Midlandvale	19	16- 7-51
Taylor, C. M.	Mountain Park	118	1-10-19
Taylor, George W.	Lethbridge	83	30-12-11
*Taylor, Thomas	Hillcrest	62	22-12-10
Tennant, Robert	Lethbridge	58	3- 7-18
*Teppo, Herman	Bellevue	15	10- 1-08
Thackray, Fred	Lethbridge	208	29- 7-28
*Thain, Harry S.	Lethbridge	32	12- 1-09
*Thomas, David	Bankhead	28	8- 4-05
Thomas, David R.	Edmonton	73	3- 9-38
Thomas, Isaac	Coleman (duplicate)	120	2- 1-20
Thomas, John	Diamond City	30	8- 1-09
Thomas, John	Frank	89	25- 3-12
*Thomas, Joseph D.	Hosmer, B.C.	37	25-11-09
Thomas, William J.	Luscar	51	24- 7-44
Thomason, C.	Coleman	119	12-11-19
Thompson, Joseph	Carbon (duplicate)	91	9- 1-40
Thompson, T.	Coleman	87	2- 7-19
Thomson, Andrew R.	Drumheller	159	1- 8-22
Thomson, George G.	Lethbridge	163	9- 9-22
Thomson, James	Drinnan	6	27- 7-31
Thomson, John	Edmonton	4	26- 7-31
Tiberg, A. J.	Blairmore	34	20- 7-43
Tiberghien, A. J.	Coleman	9	24- 7-45
Tonge, Reginald	Blairmore	54	5-10-44
Tonge, Thomas	Bickerdike	90	1- 6-12
Touhey, J. B.	Drumheller	22	6- 5-33
Trevethin, Mark	Wayne	3	3- 8-40
Tully, Thomas	Fernie, B.C.	75	12- 7-18
*Turner, J. H.	Coalhurst	89	2- 7-19
Turner, Leonard	Nordegg (duplicate)	179	11- 8-24
Tyer, Edward	Shaughnessy	61	27- 8-37
Tyer, Harold	Lethbridge	87	12- 8-39
*Unsworth, Robert	Garden Plain	36	30- 8-16
Utley, F. W.	Bellevue	108	16- 7-19
Villard, Henry	Wayne	181	11- 8-24
Vivyurka, John	Mercoal	21	28- 9-32
Waite, Archibald	Taber	10	26- 4-04
Wakaruk, George	Newcastle	26	18- 7-47
Walker, Ian M.	Blairmore	15	19- 7-50
Watkins, J. M.	Taber	106	15- 7-19
Watkins, W. E.	Lille	20	18- 1-08
*Watson, William	Coleman	13	26-12-07
Watters, A. G.	Pocahontas	95	1-11-12
Watters, John	Bankhead	22	18- 1-08
*Weatherby, Cory	Hillcrest	11	6-11-02
Webster, James S.	Shaughnessy	88	17- 8-39
*Welch, James D.	Taber	113	20-11-12
Welsh, Edwin L.	Lethbridge	10	12- 7-41
Westcott, Henry M.	Wayne	201	10- 9-27
Wheatley, Fred M.	Banff	3	26- 7-31
White, James B.	Nordegg	12	25- 8-45
Whitehead, J. W.	Blairmore	216	5- 9-29
Whitelaw, Thomas	Coleman	25	24- 2-08
Willets, Frederick	Hillcrest	148	1- 8-21
Williams, Albert	Beverly	134	26- 7-20
Williams, Arthur E.	Saunders	162	1- 8-22
Williams, John J.	Lovett	11	18- 9-14
Williams, Thomas H.	Canmore	8	20- 7-00
Williams, W. E.	Beverly	96	3- 7-19
Williamson, David S.	Camrose	199	5- 8-27
Wilson, Robinson	Drumheller	151	1- 8-21
Wilson, William G.	Coleman	3	20-12-05
Wiltse, Donald H.	Edmonton	5	26- 7-31
Winter, Archibald	Strathcona	63	16- 1-11
Womersley, Alfred	Blairmore	25	29- 7-33
Worthington, Thomas	Lethbridge	69	9- 7-18
Worthington, W. T.	Edmonton	92	3- 7-19
Worthington, Willard T. Jr.	Edmonton	42	13- 7-48
*Wright, J. S.	Canmore	38	27-11-09
Yard, George C.	Nordegg	150	1- 8-21
Yard, Lloyd G.	Trochu	5	17- 7-45
Young, Charles	Bellevue	23	22- 7-42
Young, D. B.	Coleman	186	24- 7-25
Young, John	Drumheller	52	26- 7-44
Zemek, Joseph	Frank	46	13- 7-48

*Deceased

LIST OF NAMES OF HOLDERS OF THIRD CLASS CERTIFICATES

Name	Address	Cert. No.	Date of Issue
Adams, Thomas H.	Coalhurst	16	10- 3-14
Adamson, Alexander	Perbeck	231	22- 6-36
Adamson, Robert	Huxley	157	12- 6-34
Adlam, William	Hillcrest	108	2- 6-10
Ainsley, George H.	Morley	126	13- 7-48
Ainsworth, John H.	Halkirk	29	25- 7-41
Aitchison, Peter	Lethbridge	230	22- 6-36
Aitken, James R. S.	Nordegg	98	9- 8-44
Aitken, William	Mountain Park	668	24- 3-28
Akitt, William	Carmangay	40	11- 1-46
*Alderson, R. D.	Coleman	17	3- 1-07
Alexander, William	Bellevue	8	26- 7-31
Allan, Alexander M.	Hosmer, B.C.	247	31- 7-13
Allan, William H.	Newcastle (duplicate)	409	14- 9-40
Allanby, Charles H.	Foothills	679	19- 7-28
Allen, Edgar	Wayne	436	29- 8-21
Allen, Thomas G.	Wayne	765	4- 6-30
Allen, Walter F.	Wayne	315	4- 7-38
Allen, William C.	Coleman	205	10- 8-12
Allman, William	Coleman	79	30- 1-47
Aloisio, Edward	Robb	33	16- 7-49
Ambrossi, Antonio	Nordegg	478	1- 8-22
Anderson, Andrew	Bellevue	39	17- 6-14
Anderson, Arne	Elnora	313	4- 7-38
Anderson, George E.	East Coulee	31	16- 7-49
Anderson, Gunner W.	Evansburg	650	1- 8-27
Anderson, Hugh W.	Edmonton	150	7- 7-17
*Anderson, J.	Frank	13	.....
Anderson, John G.	Wayne	71	16- 7-51
*Anderson, Peter B.	Mountain Park	264	26- 6-19
Anderson, Robert	Drumheller (duplicate)	37	20- 4-42
Anderson, William	Coleman	114	13- 7-48
Andrew, Alfred	Edmonton	355	8- 6-39
Annon, Joseph L.	Bow Island (duplicate)	69	3-11-43
Antonenko, Andrew R.	Mountain Park	47	18- 7-46
Antrobus, Fred	Coleman (duplicate)	71	6- 8-46
Appleby, William S.	Canmore	117	6- 7-33
Appleton, John T.	Mountain Park	76	19- 4-15
Arbuckle, John	Mountain Park	263	26- 6-19
Archer, Roland	Hillcrest	132	22-12-10
Archibald, David	Bickerdike	222	25-11-12
Armstrong, Alex	Drumheller	697	16- 8-28
*Armstrong, John	Nordegg	171	17- 7-17
Armstrong, John	Castor	719	7- 6-29
Armstrong, Peter M.	Nordegg	224	8- 6-18
Aschacker, Martin	Blairmore	1	3- 8-40
Ashman, Alfred W.	Rosedale	151	7- 7-17
Ashmore, James Jr.	Champion	108	15- 6-33
Ashton, William	Mountain Park	90	27- 8-15
Ashurst, W.	Coleman	82	26- 8-09
Aspinall, Francis	Bellevue	32	30- 5-07
*Astley, David	Wood River	483	1- 8-22
Atherton, Edward	Bickerdike	40	14- 7-14
Atkinson, Charles W.	Drumheller	249	3- 6-37
Auguston, Ernest G.	Grande Prairie	164	19- 6-34
Autio, Victor	Canmore	127	13- 7-48
Babino, Arthur	Bankhead	312	26- 7-20
Bachynski, John	Newcastle	348	8- 6-39
Badham, Thomas	Coleman	153	7- 7-17
Baich, Victor	Luscar	89	18- 7-44
Bailey, Leonard H.	Coalhurst	699	16- 8-28
Bainbridge, G. E.	Nordegg	343	26- 7-20
Bainbridge, James	Pocahontas	235	31- 7-13
Baird, John	Blairmore	243	31- 7-13
Baird, William	Drumheller	218	5- 6-18
Baker, R. D.	Luscar	41	27- 7-31
Baker, Robert W.	Coleman	456	31- 7-22
Baker, Stanley J.	Mercoal	43	18- 7-46
Balkwill, Frederick W.	Alexo	631	30- 7-26
Ball, Alfred	Natal, B.C.	292	20-11-19
Bambrough, George	Hillcrest	345	26- 7-20
Bansemer, R.	Bankhead	14	3- 1-07
Barber, J.	Frank	7	3- 1-07
Barber, James S.	Hillcrest	144	3- 7-11
Barber, William J.	Drumheller	781	10- 6-30
Barclay, Daniel	Dinant	89	23- 9-32
Barclay, Peter	Foothills	332	7- 9-38
Barclay, R. W.	Drumheller	313	26- 7-20
Barclay, William	Bankhead	22	13- 3-14
Barclay, W. G.	Pocahontas	30	23- 4-14
Barich, John L.	Drumheller	32	16- 7-49
Barnes, B. J.	Coal Creek, B.C.	92	29-11-09

LIST OF NAMES OF HOLDERS OF THIRD CLASS CERTIFICATES—Continued

Name	Address	Cert. No.	Date of Issue
Barnes, Edwin	Mountain Park	137	25- 9-16
Barnes, Ernest	Coleman	453	31- 7-22
Barnes, George S.	Mountain Park	290	8- 6-38
*Barnes, John W.	Coleman	512	30- 6-23
Barnes, Thomas	Blairmore	387	1- 8-21
Baroni, Alfred	Edmonton	166	27- 6-34
Barons, James	Drumheller	48	3- 8-31
Barrass, Thomas	Wayne	40	27- 7-31
Barrie, James	Commerce	401	1- 8-21
Barringham, F. J.	Rosedale	362	26- 7-20
Barrowman, Alexander	Nordegg	548	15- 9-23
Bartlett, Wallace	Elcan	173	17- 7-17
Barton, John S.	Nordegg	68	25-10-43
Bastian, T. W.	Bankhead	30	5-12-04
Batchelor, Frank	Lethbridge	275	10- 9-37
Bateman, Fred	Sheerness	123	14- 7-16
Bateman, James	Lethbridge	279	26- 6-19
Battee, Noyes S.	Drumheller	381	1- 8-21
Batty, George	Nordegg	3	3- 8-40
Baxter, Robert	Lochearn	374	17- 6-21
Beal, George F.	Bellevue	7	20-12-13
*Bealle, Fred A.	Brule	285	26- 6-19
Bedwell, Alfred E.	Lethbridge	415	1- 8-21
Bell, William	Coleman	95	12-10-15
Bell, William	Canmore	798	8- 8-30
Bennett, Isaac	Armada	179	17- 7-17
Berendt, Carl H.	Luscar	75	16- 7-51
Berford, Edward	Elcan	196	13- 7-12
Berlando, Silvio	Rosedale	4	16- 7-45
Berze, John	Hillcrest	26	16- 7-49
Besso, A.	Canmore	80	26- 7-09
Bevan, Walter	Canmore	721	7- 6-29
Beveridge, Andrew	Commerce	156	7- 7-17
Beveridge, Andrew	Coleman	314	26- 7-20
Beveridge, James	Nordegg	65	30- 7-43
Beveridge, John S.	Midlandvale	122	29- 7-33
Bianchini, Armand	Hillcrest	59	20- 7-43
Bianchini, Meno J.	Hillcrest	9	16- 7-45
Bignell, Emford L.	Gadsby	170	26- 7-34
Billington, Edward E.	Coleman	73	25- 2-15
Binder, Christopher	Ryley	129	13- 7-48
Bird, Richard	Nordegg	357	26- 7-20
Biro, Geza J.	Newcastle	14	16- 7-49
Biro, John	East Coulee	55	19- 7-50
Birrell, William	Robb	1	29- 1-31
Birse, Alexander	Coalhurst	268	26- 6-19
Birt, William G.	Evansburg	452	31- 7-22
Bish, Homer F.	Forestburg	23	16- 7-49
Black, Andrew Jr.	Rosedale	184	17- 1-35
Blackett, W. M.	Drumheller	131	15-10-33
Blades, James	Delburne	62	25- 6-32
Blair, John	Edmonton	183	25- 7-17
Blake, Henry	Bellevue	133	30-12-10
Blake, P.	Lundbreck	23	14- 5-07
Blake, Raymond	Bellevue	408	29- 2-40
Blake, Robert	Bellevue	391	22- 8-39
Blake, Sylvanus R.	Wayne	384	1- 8-21
Blakemore, Roydon E.	Edmonton	227	16-12-12
Bland, H. A.	Taber	296	3- 2-20
Blas, Emil	Blairmore (duplicate)	91	22-10-32
Blas, Victor	Blairmore	787	14- 6-30
Blasetti, Angelo	Nordegg	85	17- 7-44
Blum, Leo	Lymburn	336	19- 9-38
*Blusson, Joseph T. C.	Champion	253	26- 6-19
Bobrovski, Martin	Mountain Park	217	5- 6-18
Boldon, James	Bellevue	86	19- 8-15
Bond, Bertram	Coleman	106	15- 6-33
Bonetti, D.	Champion	73	25- 6-32
Bonner, Fred	Evansburg	542	1- 9-23
Booth, George	Edmonton	85	18- 8-15
Booth, Harry	Beverly	654	12- 8-27
Booth, Joseph	Drumheller	98	10- 6-33
Bordula, Andrew J.	Hanna	160	16- 6-34
Boscariol, I.	Mountain Park	521	17- 8-23
Boseley, Joseph H.	Bellevue	780	10- 6-30
Bosetti, Renato	Mercoal	3	16- 7-49
Boughton, C. A.	Rosedale	755	12-11-29
Boulton, W. E.	Bankhead	48	29- 5-08
Boutry, A.	Bellevue	557	4-12-23
Bovio, Michael	Bellevue	146	3- 7-11
Boyce, James A.	East Coulee	76	16- 7-51
Boychuk, Michael T.	Shaughnessy	324	12- 8-38
Boyd, John	Wayne	390	1- 8-21
Bradley, James	Foreman	103	10- 6-33

LIST OF NAMES OF HOLDERS OF THIRD CLASS CERTIFICATES—Continued

Name	Address	Cert. No.	Date of Issue
Bradley, Thomas	Hillcrest	138	16- 1-11
Bradley, Walter	Cardiff	490	1- 9-22
Bradshaw, James	Scapa	690	16- 8-28
Bradshaw, Richard	East Coulee	209	26- 7-35
Bragdich, George	Thelma	207	24- 7-35
Brearley, Garnett	Lethbridge	18	16- 3-14
Brennan, John	Long Coulee	261	26- 6-19
Brewer, Thomas W.	Drumheller	529	17- 8-23
Bridarolli, G.	Magrath	203	8- 7-35
Briers, Leonard	Red Deer	317	8- 7-38
Briggs, Alfred J.	Drumheller	254	26- 6-19
Briggs, Charles	Canmore	302	26- 7-20
Briggs, William A.	Drumheller	414	1- 8-21
Briggs, William A. Jr.	Drumheller	346	8- 6-39
Brinkman, Alfred T.	Craigmyle	16	14- 1-41
Brisco, Daniel	Hillcrest	117	9- 6-10
Broderick, Frederick	Drumheller	702	24-10-28
Broderick, Gideon	Canmore	221	10- 3-36
Brooks, Burton, T.	Drumheller	167	17- 7-17
Brooks, Claude E. E.	Drumheller	220	8- 6-18
Brooks, George W.	Beverly	499	1-11-22
*Brooks, John	Bellevue	428	1- 8-21
Brown, Alan J.	Cardiff	163	17-11-11
*Brown, Austin L.	Edmonton	510	30- 5-23
Brown, Clarence H.	Drumheller	554	15-11-23
Brown, David M.	Commerce	157	7- 7-17
Brown, Frank	Coal Creek, B.C.	262	26- 6-19
Brown, Frederick	Edmonton	58	2- 6-32
Brown, George A.	Michel, B.C.	432	29- 8-21
Brown, James W.	Coal Creek, B.C.	2	16- 7-49
Brown, John	Canmore	185	20- 2-35
Brown, J. D. B.	Mountain Park	129	26- 8-33
Brown, John F.	Pocahontas	29	21- 4-14
Brown, John R.	Cadomin	105	18- 7-47
Brown, Richard G.	Cadomin	598	20- 7-25
Brown, Richard G. F.	Cadomin	87	18- 7-47
Brown, Robert	Bellevue	112	10- 7-16
Brown, T.	Bankhead	24	14- 5-07
Brown, Thomas W.	Edmonton	377	1- 8-21
Brown, Vernon J.	Coleman	14	16- 7-45
Brown, William	Canmore	676	19- 7-28
*Brownrigg, John H.	Frank	35	26-12-07
*Brovey, A. C.	Edmonton	64	1- 2-09
Brugos, Joseph	Mountain Park	80	3- 6-46
Bryant, E. A.	Wabamun	337	1-10-38
Budd, Kenneth J.	New Westminster (duplicate)	86	26-11-51
Budda, Joseph J.	Bellevue	145	5- 6-34
Budesheim, August E.	Dimsdale	238	20- 8-36
Bulat, John	Edmonton	291	8- 6-38
Burcey, A.	Calgary	352	26- 7-20
Burnham, George	Fallis	560	18-12-23
Burrell, Archie K.	Drumheller	793	3- 7-30
Burrell, John	Coleman	607	25- 7-25
Burrows, C.	Frank	40	18- 1-08
Burrows, James G.	Bellevue	617	14-10-25
Burton, James	Edmonton	670	19- 7-28
Burton, John T.	Edmonton	448	21- 7-22
Burton, William H.	Entwistle	553	1-11-23
*Butts, Russell J.	Alexo	38	8- 8-45
Byers, John W.	Taber	48	25-11-14
Byron, John	Coalhurst	11	10- 3-14
Calderbank, J. S.	Scapa	155	12- 6-34
*Callander, Ira C.	Pocahontas	78	19- 8-15
Camarta, John	Bittern Lake	287	8- 6-38
Cameron, Donald	Coalspur	331	26- 7-20
Campbell, George P.	Nordegg	229	8- 6-18
Campbell, Harry B.	Forestburg	303	22- 6-38
Campbell, Henry	Bellevue	188	13- 8-17
Campbell, James	Cluny	107	15- 6-33
Campbell, John H.	Canmore	71	16- 2-15
Campbell, Kenneth S.	Edmonton	102	27- 1-10
Campbell, Robert G.	Coleman	17	16- 7-45
Campbell, Thomas	Lovettville	247	25- 6-19
Campkin, Bruce C. Jr.	Lousana	41	14- 3-46
*Campkin, Robert	Lousana	384	20- 7-39
Candlish, W. S.	Brule	366	26- 7-20
Canet, Camille A.	Blairmore	601	25- 7-25
Cardle, James	Bellevue	481	1- 8-22
Carmichael, Malcolm	Canmore	684	1- 8-28
Carmichael, Maurice	Forestburg	94	28- 7-44
*Carr, John R.	Cadomin	62	20- 7-43
Carr, Thomas	Nanton	283	26- 6-19
Carruthers, Edward M.	Blairmore	43	19- 7-50

LIST OF NAMES OF HOLDERS OF THIRD CLASS CERTIFICATES—Continued

Name	Address	Cert. No.	Date of Issue
Carson, George	Frank	154	8- 7-11
Carson, James	Edmonton (duplicate)	105	6- 3-45
Cartledge, George F.	Aerial	673	19- 7-28
Cartwright, Charles E.	Blairmore	198	4- 4-18
Carty, Patrick	Evansburg	595	20- 7-25
Castella, Jens	Standard	743	5- 7-29
Catchpole, C.	Three Hills	2	30- 5-06
Causey, Thomas	Taber	403	1- 8-21
Cawthorne, L.	Frank	46	18- 4-05
Celli, Jerry J.	Coleman	46	18- 7-42
Challenger, Edward J.	Magrath	86	24- 8-32
Chalmers, James	Edmonton	278	26- 6-19
Chalmers, Robert	Edmonton	454	31- 7-22
Chalmers, Robert	Edmonton	15	26-11-40
Chamberlain, William H.	Coleman	162	19- 6-34
Chambers, Ralph H.	Lovettville	246	25- 6-19
Chaplow, Joseph	Lethbridge	49	25-11-14
Chapman, Christopher	Drumheller	232	12- 6-18
Chapman, John W.	Mountain Park	245	31- 5-37
*Charlton, Samuel	Hillcrest	179	23-11-11
Chavignaud, Louis G.	Luscar	626	26- 7-26
Chemotti, Guiseppe	Lethbridge	239	25- 8-36
Cherrille, Orlando	Edmonton	371	22- 6-39
Chesney, Samuel	Cadomin	43	17- 7-42
Chestnut, C.	Blairmore (duplicate)	28	6- 7-05
China, John	Nordegg	480	1- 8-22
Chisholm, John A.	Luscar	37	22- 8-31
Chiswick, James	Gadsby	175	27- 8-34
Chiuppi, James	Drumheller	62	24- 7-46
Christie, Joseph	Bellevue	731	17- 6-29
Churchill, J.	Frank	45	18- 4-05
Clack, Robert W.	Drumheller	740	17- 6-29
Clancy, James	Craigmyle	28	3- 8-31
Clark, John	Bankhead	301	26- 7-20
*Clark, J. C.	Blairmore	33	18- 7-07
Clark, Robert	Lethbridge	212	31-10-12
Clarke, Richard	Hillcrest	500	1-11-22
Clarke, Robert G.	Drumheller	70	16- 2-15
Clelland, Thomas	Edmonton	574	24- 7-24
Clelland, William	Lethbridge	421	1- 8-21
Clemenson, John	Bankhead	105	30- 5-10
Clozza, Angelo	Newcastle	193	10- 6-35
*Clyne, James	Canmore	65	1- 2-09
Clyne, James M. Jr.	Edmonton	45	26- 8-31
Coates, Ernest	Bellevue	35	24- 7-45
Cocchioni, Augustus	Kelowna, B.C.	411	12-11-48
Cole, J. J.	Bankhead	66	1- 2-09
Coleburne, J. H.	Drumheller	710	1- 5-29
Colley, David G.	Rosedale	121	13- 7-48
Collins, Sidney G.	Edmonton	219	5- 6-18
Colonel, Daniel	Edberg	318	14- 7-38
Comin, Silvio	Bellevue	148	5- 6-34
*Congalton, Clem S.	Vancouver, B.C.	315	26- 7-20
Congdon, Milton H.	Blairmore	476	1- 8-22
Conley, Leroy L.	Saunders	260	26- 6-19
Conlin, Richard	Drumheller	656	14- 8-27
Convery, Dennis	Coleman	107	10- 7-16
Cooke, Charles R.	Willow Creek	395	10- 9-39
Cooke, J.	Bankhead	4	30- 5-06
Coombs, Walter P.	Taber	164	17-11-11
Cooper, John A.	Lethbridge	166	10- 7-17
Cordel, Emile G.	Halkirk	91	18- 7-44
Cotterill, John	Rosedale	346	26- 7-20
Coulter, Thomas	Calgary	130	13- 7-48
Coupland, Edward	Lundbreck	173	17-11-11
Coupland, George	Bellevue	148	4- 7-11
Courtorelle, Alan F.	Drumheller	171	13- 8-34
Cousens, Gilbert W.	Bellevue	199	4- 4-18
Coutts, Anthony B.	Hardieville	178	17- 7-17
Coutts, David	Hardieville	23	30- 3-14
Coutts, George	Lethbridge	210	26-10-12
Cowan, James	High River	459	31- 7-22
Cowan, Robert	Drumheller	92	22-10-32
Cowan, W.	Bankhead	4	15-11-98
Cowley, Robert	Saunders	86	17- 7-44
Cox, John	Coleman	193	13- 7-12
Coxon, John	Edmonton	89	27- 8-15
*Crabb, S. A. B.	Lethbridge	38	28- 5-14
Craig, Andrew	Coalhurst	169	26- 7-34
Craig, James M. S.	Nordegg	413	1- 8-21
Craig, Robert T. S.	Nordegg	4	3- 8-40
Cranston, Michael	Clover Bar	218	11-11-12
Crawford, Andrew B.	Mountain Park	95	18- 7-47
Crawford, Charles	Edmonton	647	1- 8-27

LIST OF NAMES OF HOLDERS OF THIRD CLASS CERTIFICATES—Continued

Name	Address	Cert. No.	Date of Issue
Crawford, George	Bellevue (duplicate)	365	26- 7-20
Crawford, Hugh	Lethbridge	266	13- 7-37
Crawford, James	Alexo	662	10- 9-27
Crawford, John	Beaver Mines	197	13- 7-12
Crawford, John C.	Bellevue	84	17- 7-44
Crawford, John S.	Alix	333	7- 9-38
Crawford, Robert	Lethbridge	619	21-10-25
Crawford, William	Lethbridge	8	6- 3-14
Crichton, Robert	Hillcrest	516	17- 8-23
Crockett, Levi A.	Hillcrest	131	22-12-10
Crozier, John E.	Midlandvale	128	26- 8-33
Cumber, Ernest G.	Grande Prairie	36	16- 7-49
Cumberford, Granger	Drumheller	289	8- 6-38
*Cumberford, James	Drumheller	672	19- 7-28
Currie, Campbell	East Coulee	81	18- 7-47
Currie, Robert	Canmore	715	7- 6-29
Curry, John	Passburg	439	3-11-21
Curry, John	Hillcrest	368	22- 6-39
Czirjak, Andrew	Shaughnessy	52	19- 7-50
D'Altroy, Arthur C.	Commerce	6	1-12-13
Dalziel, William	Clover Bar	14	26- 7-31
Dambois, Charles E.	Bellevue	124	13- 7-48
D'Amico, George	Nordegg	486	1- 8-22
Damico, Zupito	Nordegg	8	3- 8-40
Darbyshire, Harry	Drumheller	183	18-12-34
Davey, George	Michel, B.C.	418	1- 8-21
Davidson, Albert M.	Evansburg	517	17- 8-23
*Davidson, David	Edmonton	170	17-11-11
Davidson, Robert M.	Coleman	33	26- 7-31
Davies, E. M.	Wayne	95	25- 5-33
Davies, Ernest	Big Prairie	326	26- 8-38
Davies, G. C.	Lundbreck	114	3- 7-33
Davies, James	East Coulee	784	10- 6-30
Davies, J.	Coleman	265	26- 6-19
Davies, John C. H.	Coalmont, B.C.	492	1- 9-22
Davies, Richard	Luscar	42	26- 7-31
*Davies, T.	Frank	49	18- 4-05
Davies, T. O.	Coleman	109	2-6-10
Davies, W. E.	Hillcrest	16	26- 7-31
*Davies, W. J.	Edmonton	16	.....
Davis, D. B.	Midlandvale	730	10- 6-29
Davis, Fred M.	Big Valley	619	28- 9-25
Davis, William	Coalspur	192	7-11-17
Dawes, Edmund	Drumheller	222	8- 6-18
Dawson, Glen	Brule	573	24- 7-24
Dean, William	Bankhead	20	20- 3-14
DeBernardo, Frank J.	Drumheller	131	13- 7-48
DeCecco, Antonio	Coleman	119	13- 7-48
Deere, Gladstone E.	Blackstone	449	21- 7-22
Denholm, James	Mercoal	17	26- 7-31
Dennis, Frederick W.	Lethbridge	3	28-11-13
Desson, Horace E.	Rosedale	526	17- 8-23
Deugan, Frederick H.	Coleman	97	18- 7-47
Devernichuk, Mike	Lethbridge	8	16- 7-45
Devonshire, G.	Canmore	31	23- 5-07
Devoy, William	Hardieville	9	6- 3-14
Diamond Omer	Blairmore	106	18- 7-47
Dieter, Walter J.	Sheerness	397	1- 8-21
*Digman, John H.	Royal View	198	13- 7-12
Dinsdale, William	East Coulee	61	2- 6-32
Dixon, John O.	High River	698	16- 8-28
Dixon, S.	Lille	18	3- 1-07
Dixon, W. B.	High River	179	10- 9-34
Dobson, Roy C.	Lethbridge	2	3- 8-40
Dolanz, Iggie	Three Hills	361	22- 6-39
Dombroski, Theodore S.	Mercoal	85	18- 7-47
Donaldson, M. W.	Shaughnessy	69	9- 9-46
Donaldson, Thomas	Shaughnessy	64	25- 6-32
Donnachie, John	Brule	630	26- 7-26
Donovan, William J.	Mercoal	73	16- 7-51
Doodson, Robert	Coal Creek, B.C.	177	17-11-11
Dotto, August J.	Cadomin	132	13- 7-48
Douglas, D. B.	Edmonton	129	26- 7-16
Douglas, Horace L.	Cadomin	83	18- 7-47
Douglas, Peter S. Jr.	Cadomin	233	22- 6-36
*Downs, T.	Canmore(duplicate)	6	6-10-06
Draper, Robert	Cochrane	214	1-11-12
Driega, William	Cadomin	61	20- 7-43
Driscoll, L.	Evansburg	560	24- 7-24
Dropko, William	Midlandvale	208	26- 7-35
Dryburgh, W. W.	Nordegg	356	26- 7-20
Dudley, John T.	Hillcrest	493	1- 9-22
Duggan, E. J.	Taber	41	18- 1-08

LIST OF NAMES OF HOLDERS OF THIRD CLASS CERTIFICATES—Continued

Name	Address	Cert. No.	Date of Issue
Duggan, John	Edmonton	97	12-10-15
Duggan, R. G.	Taber	27	26- 4-04
Dunbar, Edgar J.	Canmore	575	1- 8-24
Dunbar, Robert	Hinton Trail	272	16- 8-37
Duncan, David R.	Alexo	24	15- 7-41
Duncan, Ninian S.	Cochrane	211	31-10-12
Dunlop, Hugh	Coleman	321	26- 7-20
Dunnigan, Edward	Bankhead	216	1- 6-18
Dunn, Charles F.	Drumheller	604	25- 7-25
Dunn, Robert A.	Willow Creek	322	8- 8-38
Dunn, Robert A.	Edmonton	20	16- 7-49
Dunn, Samuel	Taber	441	15-12-21
Dunn, W. P.	Evansburg	347	26- 7-20
Dupen, Albert E.	Lethbridge	616	14- 8-25
Dupen, Thomas	Edmonton	275	26- 6-19
Duquesne, George G.	Champion	306	22- 6-38
Duthie, Alexander F.	Pocahontas	184	28-11-11
Dutka, Joseph	Canmore	794	3- 7-30
Dutton, Alfred	Mountain Park	121	29- 7-33
Dutton, Joseph A.	Redcliff	623	26- 7-26
Dziedzic, Joseph C.	Blairmore	94	18- 7-47
*Eccleston, J. W.	Mountain Park	330	26- 7-26
Eccleston, Richard	Bellevue	243	26- 6-19
Eccleston, Thomas	Mountain Park	475	31- 7-22
*Eccleston, W.	Michel, B.C.	20	3- 1-07
Eckert, William	Sedalia	539	17- 8-23
Edwards, John	Cadomin	32	26- 7-31
Edwards, O. E.	Cadomin	115	3- 7-33
Elkes, F. W.	Newcastle	724	7- 6-29
Elliott, James	Drumheller	277	26-10-37
Ellison, Fred	Drumheller	75	14- 7-44
Embree, Merton, B.	Bankhead	239	31- 7-13
Emmerson, Charles A.	Bellevue	5	3- 8-40
*Eno, John W.	Drumheller	223	8- 6-18
Entwistle, Albert V.	Kipp	471	31- 7-22
Eskeland, Arthur	Champion	21	12- 7-41
Evans, Angelo P.	Blairmore	42	18- 7-46
Evans, Charles	Hillcrest	327	26- 7-20
Evans, David E.	Luscar	46	26- 7-31
Evans, D.	Frank	83	3- 9-09
Evans, Evan	Taber	362	22- 6-39
Evans, Gwilym	Blairmore	308	26- 7-20
Evans, Howell	Mountain Park	750	5- 9-29
Evans, Hugh	Lethbridge	156	12- 7-11
Evans, H.	Taber	94	2-12-09
Evans, I. L.	Blairmore	196	18- 6-35
*Evans, James D.	Drumheller	383	1- 8-21
Evans, Joseph H.	Midlandvale	72	15-10-46
Evans, Llewellyn	Coleman	152	7- 7-17
Evans, Nathaniel	Passburg	54	27-11-14
Evans, Thomas L.	Calgary	367	1-11-20
Evans, Thomas O.	Blairmore	244	26- 6-19
Evans, William	Drumheller	360	26- 7-20
Ewing, Fred	Donalda	97	10- 6-33
Ewing, John J.	Rosedale	93	18- 7-47
Ewing, William G.	Drumheller	80	16- 7-51
Excoffon, Eugene	Bellevue	155	7- 7-17
Fairhurst, H.	Lethbridge	39	23-12-04
Farmer, Eli	Drumheller	189	10- 6-35
Farmer, James	Drumheller	176	27- 8-34
Farmer, John T.	Drinnan	80	17- 7-44
Farnworth, George	Nordegg	30	25- 7-41
Fawcett, Elmer S.	Cardiff	150	9- 6-34
*Ferguson, C. J.	Canmore	4	20-12-05
Ferguson, John	Commerce	34	23- 5-14
Ferguson, Joseph	Cadomin	70	30- 7-46
Ferryman, Henry	Corbin, B.C.	447	16- 6-22
Finkbiner, Henry	Scapa	30	26- 7-31
Fisher, Ernest	Bellevue	256	26- 6-19
Fisher, Harry	Hillcrest	338	26- 7-20
Fisher, James	Bellevue	194	3- 4-18
Fisher, John M.	Chin	190	10- 6-35
Fisher, Samuel	Drumheller (duplicate)	139	26- 1-34
Fisher, Walter E.	Nordegg	122	13- 7-48
Fisher, William J.	Bellevue	186	13- 7-17
Fishwick, Thomas	Mountain Park	98	12-10-15
Fiske, G. E.	Edmonton	88	27-11-09
Fleischer, Carl H.	Rosebud	28	16- 7-49
Fleming, Nelson	Coleman	550	1-11-23
Flynn, Thomas E.	Coleman	306	26- 7-20
Folden, Irvine A.	East Coulee	323	9- 8-38
Fontana, B. J.	Coleman	57	20- 7-43
Ford, Allen	Burmis	183	28-11-11
Ford, George C.	Drumheller	310	26- 7-20

LIST OF NAMES OF HOLDERS OF THIRD CLASS CERTIFICATES—Continued

Name	Address	Cert. No.	Date of Issue
Forshaw, Richard	East Coulee	138	26- 1-34
Forsyth, John	Lethbridge	54	1- 7-43
Fortunaso, Joseph A.	Bellevue	13	16- 7-49
Forward, Hadyn	Lethbridge	58	19- 7-50
Foster, Cyril E.	Rocky Mountain House	60	2- 6-32
Foster, James	Lethbridge	174	17- 7-17
Foster, Richard	Edmonton	502	29-12-22
Foster, William	Pocahontas	31	28- 4-14
Fourneau, Jean F.	Bellevue	396	1- 8-21
Fowers, C. W.	Canmore	50	29- 5-08
Fox, A.	Taber	55	8- 1-09
Fox, A. A.	Canmore	808	29-10-30
Fox, Alfred Jr.	Carbon	334	19- 9-38
Fox, Benjamin	Carbon	297	11- 6-38
*Foye, Edward B.	Delia	93	1- 11-32
France, Harry	Nordegg	288	8-10-19
France, Henry A.	Coleman	19	16- 7-45
France, James	Nordegg	24	18- 7-45
Fraser, Alec	Carmangay	274	26- 6-19
Fraser, James	Big Valley (duplicate)	286	25- 8-19
Fraser, James V.	Coleman	32	25- 7-41
Fraser, William B. Jr.	Coleman	350	8- 6-39
Fraser, William D.	Coleman	53	19- 7-50
Fregren, Eric	Mercoal	280	11- 2-38
Fridel, Stephen	Barrhead	63	25- 6-32
Fry, George H.	Hillcrest	86	18- 7-47
Fry, Nicholas	Donalda	752	5- 9-29
Fudge, George H.	Cardiff	311	26- 7-20
Fulton, James	Champion	652	12- 8-27
Fyfe, Walter H.	Lethbridge	79	19- 8-15
Galbraith, A. G.	Coalhurst	460	31- 7-22
Galezna, Peter L.	Bittern Lake	113	3- 7-33
Gallagher, John	Rosedale	760	4- 6-30
Galvon, Joseph J.	Blairmore	21	16- 7-45
Gammie, John S.	Drumheller	226	8- 6-18
Garbett, Richard	Michel, B.C.	180	23-11-11
Gardner, H. H.	Coleman	135	31-10-33
Garner, E. Denison	Canmore	222	3- 6-36
Garrett, John	Lille	147	4- 7-11
*Gates, H.	Coleman	26	26- 4-04
Gatiss, R.	Long Coulee	85	25-11-09
Gavelin, Fred	Blairmore	519	17- 8-23
George, Peter	Three Hills	386	25- 7-39
Gerla, Bernard J.	Lethbridge	72	14- 7-44
Gibney, Frank	Grande Prairie	260	23- 6-37
Gibson, George	Blairmore	67	9-10-43
Gibson, Henry	Edmonton	349	26- 7-20
Gibson, James	Willow Creek	75	25- 6-32
Gibson, Joseph C.	Diamond City	587	24- 1-25
Gibson, Thomas P.	Midlandvale	663	16- 9-27
Gibson, William	Edmonton	370	26- 7-20
Gidman, J. H.	Taber	348	26- 7-20
Giffen, H. R.	Coalfields	19	26- 4-04
*Gilday, Michael E.	Drumheller	63	11-12-14
Gill, Peter	Thorsby	352	8- 6-39
Gillespie, John C.	Drumheller	132	3- 8-16
Gillespie, John M.	Coleman	111	2- 6-10
Gilliland, William	Strathcona	123	8-11-10
Gilmour, John	Cadomin	605	25- 7-25
Gilmour, Peter	Midlandvale	363	26- 7-20
Ginther, Patrick J.	Saunders	133	13- 7-48
Gitzel, Edward S.	Luscar	115	13- 7-48
Givens, John	Bankhead	158	10- 7-17
Gladwin, J.	Edmonton	97	20-12-09
Gladwin, Lewis C.	Carstairs	19	11- 7-41
Goldie, William	Lethbridge	24	1- 4-14
Goodrick, William L.	Commerce	168	17- 7-17
Goods, Peter	Drumheller	39	17- 7-42
Goodwin, Albert E.	Bellevue	43	26- 7-31
Goodwin, Andrew	Bellevue	187	13- 8-17
Goodwin, G. W.	Bellevue	320	26- 7-20
Goodwin, Watts	Bellevue	408	1- 8-21
Goodwin, William	Bellevue	766	4- 6-30
Gordon, David L.	Drumheller	636	6- 8-26
*Gordon, Thomas	Clover Bar	248	26- 6-19
Gorton, James	Hillcrest	203	22- 7-12
Gosney, Fred	Cadomin	76	14- 7-44
Gosney, Fred W.	Mercoal (duplicate)	76	22-10-46
Gosney, John A.	Cadomin	112	13- 7-48
Gotheridge, C. F.	Round Hill	370	22- 6-39
Gotheridge, W. V.	Round Hill	26	26- 7-31
Graham, Robert	Clover Bar	50	27-11-14
*Graham, William	Coleman	19	26- 7-31
Grant, Alexander	Hillcrest	298	13- 6-38

LIST OF NAMES OF HOLDERS OF THIRD CLASS CERTIFICATES—Continued

Name	Address	Cert. No.	Date of Issue
Grant, Donald A.	Hillcrest	242	26- 6-19
Grant, Ferguson	Hillcrest	113	13- 7-48
Grant, Robert	Lethbridge	10	10- 3-14
Grant, Robert H.	Camrose	2	23-10-13
*Graver, G.	East Coulee	201	4- 7-35
Green, Henry V.	Halkirk (duplicate)	291	15-11-19
Green, Walter	East Coulee	328	29- 8-38
Green, William	Luscar	775	10- 6-30
Green, William J.	Dinant	343	13- 2-39
Greenhalgh, Richard M.	Coleman	154	7- 7-17
Gregory, John B.	Passburg	128	17-12-10
Gregory, William W.	Mountain Park	496	6- 9-22
Greig, Norman	Dinant	293	10- 6-38
*Grenda, Stanley	Turin	198	28- 6-35
Gresl, John	Bellevue	87	17- 7-44
Griffiths, Edward	Foothills	367	22- 6-39
Griffiths, E. H.	Canmore	33	5-12-04
Griffiths, John T.	Lille	168	17-11-11
Griffiths, Owen	Foothills	73	15-10-46
Griffiths, T. J.	Lille	77	18- 6-09
Groombridge, Thomas	Edberg	312	4- 7-38
Grubisich, Walter	Hinton	375	4- 7-39
Guiney, John C.	Rosebud	79	25- 6-32
Guisto, G.	Beazer	6	13- 7-31
Gurtler, Rudolph	East Coulee	83	16- 7-51
Gwilliam, David J. M.	Hillcrest	130	22-12-10
Hadfield, John	Coleman (duplicate)	21	4- 4-07
Hadfield, William A.	Coleman	567	16- 7-24
*Hadwell, A. J.	Bellevue	717	7- 6-29
Hadwell, Thomas C.	Blairmore	27	26- 7-31
Hagblad, Theodore	Lethbridge	602	25- 7-25
Haines, Thomas	Coleman	37	23-12-04
Halbert, Benjamin G.	Trochu	151	9- 6-34
Halbert, David	Trochu	723	7- 6-29
Halbert, Robert	Trochu	71	25- 6-32
Halbert, Robert A.	Trochu	217	23- 9-35
Hall, Ernest	Wayne	438	10-10-21
Hall, James	Nordegg	402	1- 8-21
Hall, Robert	Canmore	709	24-11-28
Halliday, George W.	Commerce (duplicate)	248	31- 7-13
Hallworth, Albert	Bellevue	52	12- 6-08
Hamilton, Charles	Edmonton	36	10- 1-08
Hamilton, Duncan C.	Drumheller	320	28- 7-38
Hamilton, John	Lethbridge	120	10- 7-16
Hamilton, John M.	Hanna	657	14- 8-27
Hamilton, Joseph J.	Lethbridge	434	29- 8-21
Hamilton, Thomas M.	Blairmore	393	1- 8-21
Hanna, Thomas	Mercoal	269	21- 7-37
Hannen, James	Canmore	1	30- 5-06
*Hansen, Knud	Aerial	644	1- 8-27
Hanson, Andrew	Three Hills	187	10- 6-35
Hargreaves, George	Lethbridge	65	11-12-14
Harmison, William	Mountain Park	41	27- 8-14
Harpham, Henry A.	Clover Bar	37	27- 7-45
Harries, Henry C.	Coleman	209	26- 10-12
Harries, John	Wayne	568	16- 7-24
Harris, Edward V.	Rosedale	52	29- 7-42
Harris, Rupert S.	Edmonton	513	17- 8-23
Harrison, Thomas	Bankhead	29	11- 7-04
Harrop, William	Robb	2	29- 1-31
Hart, Daniel	Wayne	566	26- 6-24
Hart, James J.	Coleman	692	16- 8-28
Hartley, William	Bankhead	110	2- 6-10
Harvie, John	Taber	68	1- 2-09
Harvie, Robert	Lethbridge	40	23-12-04
Hastings, Andrew P.	Lethbridge	176	10- 7-17
Hawkins, E. L.	Nordegg	339	26- 7-20
Hawkins, Harold	Drumheller	541	1- 9-23
Hayes, Robert	Lundbreck	60	22- 1-09
Haynes, Arthur	Midlandvale	65	26- 7-46
Head, James	Taber	209	1- 6-18
Heap, Robert	Lundbreck	206	10- 8-12
Heathcote, Joseph	Edmonton	32	28- 4-14
Hedges, Richard	Beverly	239	29- 8 18
Heidel, Herbert G.	Priddis	401	12-10-39
Henderson, Andrew	Wayne	655	14- 8-27
Henderson, Austin J.	Luscar	79	17- 7-44
Henderson, James	Reid Hill	134	30-12-10
Henderson, Samuel	Reid Hill	136	30-12-10
Henderson, W.	Minott	61	26- 1-09
Henry, William B.	Newcastle	339	9-11-38
Herman, John R.	Mountain Park	33	25- 7-45
Herman, William M.	East Coulee	1	16- 7-49
Herpshaw, Joseph	Pocahontas	300	23- 3-20
Hetherington, Joseph W.	Carbon	609	25- 7-25

LIST OF NAMES OF HOLDERS OF THIRD CLASS CERTIFICATES—Continued

Name			
Hetherington, R. Jr.	Wayne	420	1- 8-21
Hetherington, W. B.	Calgary	340	9-11-38
Heyworth, Ernest S.	Dinant	763	4- 6-30
Hibbert, George	Three Hills	28	15- 7-41
Hibbert, William T.	Coleman	622	11- 5-26
Higgins, Alfred	Bankhead	25	15 5-07
Higgins, John	Bellevue	201	18- 4-18
Higney, John	Coalhurst	245	26- 6 19
Hilbert, Waddington	Mercoal	240	13-10-36
Hill, Ernest	Coleman	144	5- 6-34
Hill, James	Royal View	114	3- 6 10
Hillary, Harry	Bellevue	736	17- 6 29
*Hillary, John	Rosedale	258	26- 6-19
Hillary, Joseph	Drumheller	391	1- 8-21
Hillary, Michael	Midlandvale	665	26-10-27
Hilling, James	Coleman	43	23- 1-08
Hluska, Walter	Robb	11	16- 7-49
Hodgkinson, John A.	Edmonton	205	1- 6-18
*Hogg, Charles M.	Lethbridge	424	1- 8-21
Hogg, John	Foothills	22	13- 7-31
*Holden, James	Bankhead	13	3- 1-07
Holland, Thomas	Lethbridge	161	10- 7-17
Holliday, Thomas	Drumheller	247	1- 6-37
Holliday, William	Drumheller	596	20- 7-25
Holmes, G. E.	Fernie, B.C.	15	1903
Holmes, Robert	Coleman	141	11-11-16
Holowatiuk, William	Newcastle	25	18- 7-45
Holton, Joseph	Magrath	140	5- 4-34
Honeyman, Maurice R.	Robb	369	22- 6-39
Hood, Andrew	Frank	20	21- 6-03
Hook, Alfred J.	Halkirk	78	25- 7-32
Hooks, Albert	Drumheller	807	29-10-30
Hooks, John W.	Calgary	210	1- 6-18
Hooten, Robert	Edmonton	505	15- 2-23
Hooyberg, Adrian	Blairmore	9	16- 7-49
Hopkins, Arthur J.	Foothills	761	4- 6-30
Hopkins, John T.	Coleman	259	26- 6-19
Hopkins, William	Coleman	93	1- 9-15
Hopkins, William H.	Drumheller	451	31- 7-22
Hopper, Luther T.	Mercoal	72	16- 7-51
Horkulak, Andrew	Thorsby	25	15- 7-41
Horne, James	Mercoal	576	1- 8-24
*Horne, Thomas Jr.	Luscar	687	1- 8-28
Horner, Charles	Edmonton	440	16-12-21
Horz, E. Louis C.J.	Evansburg	308	22- 6-38
Hotte, Leonard	Coleman	2	16- 7-45
Howells, David T.	Lethbridge	27	15- 7-41
Howells, Edward W.	Mercoal	52	6- 1-32
Howells, John	Elcan	126	19- 7-16
Hronek, Ben	Halkirk	614	1- 8-25
Hucik, Louis	Blairmore	15	16- 7-45
Huddart, Matthew	Bellevue	102	18-11-15
Hudyma, John	Pocahontas	207	1- 6-18
Huff, L. E.	Lethbridge	325	26- 7-20
Hughes, Angus	Coleman	572	24- 7-24
Hughes, Harry	Natal, B.C.	506	9- 3 23
Hughes, William A.	Luscar	54	19- 7-46
Hughes, William R.	Lille	181	23-11-11
Hulbert, H. A.	Coleman	747	23- 7-29
*Hulme, Charles	Hillcrest	124	17-12-10
Hulme, James	Carbon	564	26- 2-24
Humble, Stephen T.	Bellevue	29	23- 5-07
*Hunter, Alexander B.	Coleman	207	19- 8-12
Hunter, James	Edmonton	276	26- 6-19
Hunter, John T.	Garden Plain	148	7- 7-17
Hunter, Thomas	Edmonton	805	22-10-30
Hutchinson, George E.	Brookdale	404	1- 8-21
Hutchison, J. J.	Lovettville	332	26- 7-20
Hutchison, Peter	Frank	202	22- 7-12
Hutton, David T.	Bellevue	241	31- 7-13
Hutton, George	Bellevue	186	2-12-11
Hutton, Hugh	Bellevue	60	5-12-14
Hutton, Isaac	Bellevue	99	27-12-09
Hutton, John	Bellevue	135	30-12-10
Hutton, Walter C.	Coalhurst	756	18- 2-30
Hyde, Isaac	Drumheller	134	15- 9-16
Hynd, William	Elcan	52	27-11-14
Instone, Henry	Hillcrest	197	3- 4-18
Inverarity, William	Rosebud	382	4- 7-39
Ironmonger, John	Hillcrest	145	3- 7-11
Ironmonger, Samuel	Hillcrest	37	16- 7-49
Ironmonger, William	Hillcrest	487	1- 8-22
Ivan, Mike	East Coulee	199	28- 6-35
Iwanichuk, John	Midlandvale	30	16- 7-49

LIST OF NAMES OF HOLDERS OF THIRD CLASS CERTIFICATES—Continued

Name	Address	Cert. No.	Date of Issue
Jackson, John	Bellevue	246	31- 7-13
Jackson, Harold W.	Forestburg	51	26- 7-42
Jackson, Richard A.	Canmore	15	16- 7-49
Jackson, Thomas	Coleman	495	1- 9-22
Jahelka, Reginald	Nordegg	59	19- 7-50
James, Albert J.	Forestburg	25	26- 7-31
James, Alfred	Drumheller	182	12-10-34
James, Henry	Coleman	53	14- 7-08
James, Hiram	Heisler	158	16- 6-34
James, Isaac A.	Coleman	252	26- 6-19
James, Isaiah	Rumsey	801	18-10-30
James, John	Pocahontas	28	21- 4-14
James, John C.	Mountain Park	7	3- 8-40
James, Joseph	Frank	25	26- 4-04
James, Joseph	Cadomin	248	3- 6-37
James, Thomas	Saunders	340	26- 7-20
*James, William	Pocahontas	234	31- 7-13
James, William	Mountain Park	14	6-11-40
Jensen, Ingvard M.	Shaughnessy	60	19- 7-50
Jinks, William E.	Beverly	180	25- 7-17
Johnson, Albert	Coleman	88	26- 8-15
Johnson, Alexander J.	Ardley	68	25- 6-32
Johnson, Chris	Carbon	561	28-12-23
Johnson, Martin R.	Rumsey	234	22- 6-36
*Johnson, Moses F.	Alix	804	18-10-30
Johnson, Oscar G. F.	Wayne	134	13- 7-48
*Johnson, Thomas	Drumheller	696	16- 8-28
Johnstone, Alexander	Clover Bar	329	26- 7-20
Jones, Arthur	Coleman	547	15- 8-23
Jones, Daniel	Dinant	474	31- 7-22
Jones, Daniel H.	Lovettville	99	10-12-15
Jones David	Edmonton	69	1- 2-09
Jones David	Taber	55	27-11-14
Jones David	Wayne	133	25- 9-33
Jones, David I.	Wayne	578	11- 8-24
Jones, Douglas W.	Pincher Creek	49	27- 9-31
Jones, E. W.	Drumheller	127	22- 8-33
Jones, Edward B.	Hillcrest	469	31- 7-22
Jones, Elias	Coleman	680	1- 8-28
Jones, Erskine	Coalfields	47	18- 4-05
Jones, Evan	Coalfields	12	26- 4-04
Jones, Evan J.	Calgary	144	3- 7-17
*Jones, Griffith	Edmonton	375	17- 6-21
*Jones, I.	Edmonton	589	3- 3-25
Jones, Jack	Cardiff	127	17-12-10
Jones, Jasper R.	Coleman	49	19- 7-50
Jones, Jenkin	Luscar	771	4- 6-30
Jones, John H.	Taber	214	1- 6-18
Jones, J. R. B.	Edmonton	301	22- 6-38
Jones, Peter	Lethbridge	195	13- 7-12
Jones, Richard	Nordegg	289	8-10-19
Jones, Richard M.	Wayne	491	1- 9-22
*Jones, Samuel A.	Lethbridge	17	26- 4-04
Jones, William	Rosedale	74	14- 7-44
Jones, William J.	Rosalind	74	25- 6-32
Jones, Wyndham	Coleman	246	1- 6-37
Jones, W. J.	Newcastle	100	10- 6-33
*Jordan, William	Taber	220	20-11-12
Jordan, Benjamin	Calgary	463	31- 7-22
Joy, Arnold J. S.	Cadomin	25	16- 7-49
Joyce, Michael	Bickerdike	224	25-11-12
Jubb, J. W.	Drumheller	708	1- 5-29
Kane, Frank	Hinton	344	3- 4-39
Kay, Arthur	Coleman	501	1-11-22
Kay, Valiant E.	Coleman	67	16- 7-51
Kay, Walter S.	Drumheller	754	12-11-29
Kay, William	Drumheller	53	26- 2-32
Kaye, Herschal	Maycroft	191	4- 1-12
Keef, James	Mercoal	26	18- 7-45
Kehl, Isodore	Nordegg	359	26- 7-20
Keith, Albert	East Coulee	250	11- 6-37
Keith, Roy	Willow Creek	254	11- 6-37
Kelly, Patrick	Edmonton	147	7- 7-17
Kemp, David	Beaver Mines	201	22- 7-12
Kenakin, Peter	Rosedale	63	27- 7-46
Kendrick, Samuel O.	Coalhurst	597	20- 7-25
Kennedy, Joseph	Willow Creek	799	10- 9-30
*Kennedy, William	Mountain Park	606	25- 7-25
Kenyon, William	Mountain Park	44	28- 9-14
Keough, Frank J.	Drumheller	134	30- 9-33
Kergan, Robert G.	Lethbridge	610	25- 7-25
Kerr, Fraser	Langford Park	96	18- 7-47
Kerr, Robert	Lundbreck	76	17- 6-09
Kerr, Robert G.	Blairmore	764	4- 6-30

LIST OF NAMES OF HOLDERS OF THIRD CLASS CERTIFICATES—Continued

Name	Address	Cert. No.	Date of Issue
Kerr, Robert T.	Passburg	75	17- 6-09
Kerr, W. R.	Coleman	89	29-11-09
Kerrison, Thomas W.	Eyremore	163	10- 7-17
Kiernan, Patrick	Robb	3	20- 2-31
Kinakin, Peter	Coleman	46	18- 7-46
King, John J. J.	Nordegg	221	8- 6-18
King, Joseph	Coalhurst	726	7- 6-29
Kinnear, John A.	Coleman	64	22- 7-43
*Kirkeberg, Henry S.	Michel, B.C.	87	27-11-09
Kirkeby, B. A.	Craigmyle	101	10- 6-33
Kirkham, Thomas	Sheerness	284	26- 6-19
Klatt, Rudolph E.	Evansburg	544	1- 9-23
Klejko, Stephen	Coleman	213	1- 6-18
Knight, William	Carbondale	261	23- 6-37
Knox, Joseph	Hardieville	119	10- 7-16
Knudson, Arthur	Canmore	586	4-12-24
Koehler, William A.	Wabamun	98	18- 7-47
Koentges, John	Blairmore	182	25- 7-17
Koentges, Joseph	Bellevue	770	4- 6-30
Komperdo, John	Heisler	81	16- 7-51
Kormendy, Alexander	Rosedale	99	18- 8-44
Kormendy, Joe	Rosedale	103	25-10-44
Korner, Robert T.	Coleman	45	19- 7-50
Koshman, Alexander T.	Shaughnessy	372	22- 6-39
Kovacs, John	Shaughnessy	50	18- 7-46
Kowal, Alex	Canmore	790	14- 6-30
Kozmeniuk, Steve	East Coulee	378	4- 7-39
Krause, Herman F.	Lethbridge	407	1- 8-21
Krill, Melvin	East Coulee	66	16- 7-51
Krossa, O.	Shaughnessy	181	9-10-34
Krupper, August	Drumheller	711	7- 6-29
Kryskow, Michael	Carbondale	20	12- 7-41
Kryskow, Wilfred	Morinville	57	19- 7-50
Krywolt, Edward	Coleman	51	18- 7-46
Kuban, Stephen J.	Bellevue	16	16- 7-49
Kubica, Alois	Coleman	40	19- 7-50
Kubica, Mike P.	Coleman	12	16- 7-45
Kubicek, Fred	Rosedale	135	13- 7-48
Kubin, John J.	Coleman	42	17- 7-42
Kummer, William	High River	263	23- 6-37
Kurp, Benjamin C.	Alix	143	5- 6-34
Kurp, Thomas J.	Delburne	172	13- 8-34
Kusnir, John	Cambria	81	17- 7-44
Kwiczak, William	Drumheller	19	16- 7-49
Kyle, Daniel C.	Hillcrest	185	25- 7-17
Laight, Jonas	Medicine Hat	233	3- 5-13
Laing, W. R.	Cadomin	774	10- 6-30
*Lammie, Robert	Beverly	694	16- 8-28
Lamond, David	Frank	109	10- 7-16
Lamont, David	Frank	98	24-12-09
Larson, Tony	Edberg	33	25- 7-41
Lavis, George	Drumheller	585	14-11-24
Lawrence, Archibald H.	Coleman	47	19- 7-50
Lawrence, Ernest G.	Bellevue	59	23- 8-46
Lawrence, John	Drumheller	294	1-12-19
Lazzarotto, Peter	Picture Butte	682	1- 8-28
Learmonth, A. J.	Lundbreck	42	23- 1-08
*Leblanc, Emile	Coleman	153	8- 7-11
Leckie, Samuel	Rosedale	407	26- 1-40
Lecuyer, Glenn	Midlandvale	562	31-12-23
Lee, Charles	Mountain Park	116	13- 7-48
Lee, Walter J.	Nordegg	269	26- 6-19
LeGear, Max	Forestburg	100	18- 8-44
Lehmann, Max	Wayne	742	5- 7-29
Leitch, Andrew S.	Edmonton	57	20- 7-46
Leitch, Thomas	Drumheller	660	1- 9-27
Leivers, Albert	Wayne	12	13- 7-31
Leonard, Philip	Nordegg	479	1- 8-22
Lesson, Steve	Bellevue	354	8- 6-39
Letcher, John J.	Hillcrest	149	4- 7-11
Letcher, Joseph H.	Lovettville	100	12-10-15
Letcher, R. C.	Hillcrest	795	12- 7-30
Levesque, C.	Aerial	82	17- 7-44
Lewis, Fred	Mountain Park	227	22- 6-36
Lewis, Hanbury	Calgary	364	1-11-20
Lewis, John W.	Mountain Park	580	25- 9-24
Lewis, Thomas	Hardieville	131	26- 7-16
Lidgett, James	Entwistle	125	13- 7-48
Lidgett, Joseph L.	Mercoal	60	20- 7-43
Lindsay, James	Coalhurst	273	26- 6-19
Lindsay, John	Coalhurst	272	26- 6-19
Lister, Arthur L.	Cadomin	232	22- 6-36
Littler, John	Bankhead	190	30-12-11
Littler, Matthew	Michel, B.C.	226	7-12-12

LIST OF NAMES OF HOLDERS OF THIRD CLASS CERTIFICATES—Continued

Name	Address	Cert. No.	Date of Issue
Littler, Robert	Michel, B.C.	166	17-11-11
*Livingstone, James C.	Lethbridge	18	26- 4-04
*Livingstone, Robert D.	Lethbridge	7	21-11-98
Livingstone, R. D.	Lethbridge	39	16-10-45
Lloyd, James H.	Blairmore	192	10- 6-35
Loftus, Edward	Drumheller	111	10- 7-16
Logan, John T.	Drumheller	190	6- 9-17
Lohmaier, Peter	Sheerness	238	15- 7-18
Longworth, John	Bellevue	634	30- 7-26
Longworth, Thomas	Lethbridge	146	5- 7-17
Lonsbury, W. P.	Coleman	191	10- 6-35
Looten, Henry J.	Newcastle	44	19- 7-50
Looten, Henry V.	Newcastle	186	20- 2-35
*Lote, Francis	Hillcrest	195	3- 4-18
Louhela, Sulo A.	Canmore	295	10- 6-38
Loula, William	Bellevue	374	22- 6-39
Love, William	Edmonton	86	27-11-09
Low, James A.	Coleman	147	5- 6-34
Lowry, William J.	Drumheller	641	22- 9-26
Loxton, George	Fernie, B.C.	176	17-11-11
Loxton, John	Fernie, B.C.	51	27-11-14
*Ludbrook, Ellis E.	Bickerdike	237	31- 7-13
Ludwig, Peter	Rosedale	136	13- 7-48
Luini, Louis	Hillcrest	376	4- 7-39
Lund, Fred	Blairmore	767	4- 6-30
Lynass, James C.	Delburne	310	22- 6-38
Lynass, John	Delburne (duplicate)	108	8- 9-48
Lynch, Stewart	Canmore	26	15- 4-14
Lyons, Frank Q.	Blairmore	103	18- 7-47
Lytkowski, William P.	Canmore	503	30-12-22
Machin, J. C.	Strathcona	46	26- 2-08
Mackie, James	Big Valley	608	25- 7-25
Mackie, John	Corbin, B.C.	221	25-11-12
Mackie, William	Drumheller	645	1- 8-27
Macri, D.	Brule	518	17- 8-23
Maddison, John	Hillcrest	354	26- 7-20
Maddison, William	Mountain Park	136	25- 9-16
Madsen, Soren	Mountain Park (duplicate)	406	30-11-39
Mahoney, Patrick	Luscar	137	13- 7-48
Makin, John	Hillcrest	29	16- 7-49
Makin, John W.	Coleman	240	31- 7-13
*Mallabone, Ernest	Canmore	105	7- 7-16
Marasco, Frank	Nordegg	23	15- 7-41
March, John	Edmonton	56	20- 7-46
Marconi Gordon	Coleman	22	12- 7-41
Marconi, John	Coleman	363	22- 6-39
Marsh, Ernest	Taber	61	5-12-14
Marsh, John	Coalhurst	51	6- 1-32
Marsh, John H.	Taber	75	20- 3-15
Marsh, Walter	Kellog, Idaho	538	17- 8-23
Marsh, Walter W.	Delburne	279	12-11-37
Marsh, William	Drumheller	230	8- 6-18
Marsh, William J.	Midlandvale	776	10- 6-30
Marshall, Albert C.	Delia	365	22- 6-39
Marshall, Charles H.	Leduc	256	11- 6-37
Marshall, Robert	Leduc	255	11- 6-37
Martell, John	Lethbridge (duplicate)	65	22- 7-50
*Martin, Bert W.	Alexo	385	25- 7-39
Martin, David	Blairmore	527	17- 8-23
*Martin, Henry Sr.	Saunders	549	15- 9-23
*Martin, Richard	Taber	135	25- 9-16
Martin, William H.	Rosevear (duplicate)	53	4-12-42
Mason, Samuel	Taber	187	6-12-11
Massey, Harry	Michel, B.C.	172	17-11-11
Mather, John	Bickerdike	45	26-10-14
Mather, John H.	Namao	13	29-10-40
Mather, Stanley	East Coulee	78	15- 7-44
*Mather, Thomas	Taber	96	8-12-09
Mather, Walter	Coleman	84	24- 8-32
Matheson, James P.	Rosedale	138	13- 7-48
Mathewson, James	Nevis	236	22- 6-18
Mathieson, David	Edmonton	789	14- 6-30
Mattson, Ailie E.	Bellevue	5	16- 7-45
Mattson, Matt	Frank	34	5-12-04
May, John	Beverly	786	14- 6-30
Mayo, Daniel	Drumheller	707	20- 3-29
Mayzel, Albert D.	Heisler	84	16- 7-51
Mazur, Walter J.	Mercoal	139	13- 7-48
Meek, Fred G.	Heisler	737	17- 6-29
Melling, Joseph	Evansburg	335	26- 7-20
Melling, Peter	Coalhurst	208	26-10-12
Melson, Philip	East Coulee	359	8- 6-39
Melvin, J. L.	Lethbridge	371	28-12-20
Menzies, William	Drumheller	212	10- 8-35

LIST OF NAMES OF HOLDERS OF THIRD CLASS CERTIFICATES—Continued

Name	Address	Cert. No.	Date of Issue
Merrington, Robert H.	Ryley	31	25- 7-41
Metcalf, Joseph W.	Drumheller (duplicate)	666	16- 1-28
Meyers, August	Drumheller	406	1- 8-21
Michayluck, John G.	Frank	184	25- 7-17
Michielin, Ido D.	Midlandvale	74	16- 7-51
Mikulosik, Frank	Cambria	70	16- 7-51
Millar, C. C.	Bellevue	714	7- 6-29
Millar, David	Mercoal	627	26- 7-26
Millar, Peter P.	Drumheller	127	26- 7-16
Miller, David L.	Taber	114	10- 7-16
Miller, Douglas	Edmonton	236	4- 7-36
Miller, James	Aerial	266	26- 6-19
Miller, John R.	Aerial	293	20-11-19
Miller, Joseph	Stafford Village	14	10- 4-14
Miller, Joseph Jr.	Lethbridge	326	26- 7-20
Miller, Walter	Bellevue	159	25- 8-11
Miller, William	Drumheller	535	17- 8-23
Mills, John R.	Heisler	61	19- 7-50
Mills, Jonathan J.	Rosalind	283	22- 4-38
Milnes, John	Bellevue	334	26- 7-20
Minue, Graydon B.	Nordegg	410	1- 8-21
Miskow, Michael J.	Canmore	284	7- 6-38
Mitchell, Archie	Calgary	412	1- 8-21
*Mitchell, Charles G.	Pincher Creek	82	24- 8-32
Mitchell, David	Luscar	380	4- 7-39
Mitchell, Hugh J.	Foothills	569	24- 7-24
Mitchell, John	Evansburg	143	27- 2-17
Mitchell, J. M. P.	East Coulee	83	17- 7-44
Mitchell, Robert A.	Bellevue	10	4- 9-40
Mitchell, Thomas	Luscar (duplicate)	106	16- 9-47
Mitchell, William	Dimsdale	174	27- 8-34
Mitchinson, Arthur	Donalda	88	23- 9-32
Mitchinson, Thomas	Donalda	18	11- 7-41
Molnar, Vendel S.	Hillcrest	23	17- 7-45
Molyneux, Thomas	Aerial	102	10- 6-33
Molzan, Henry	East Coulee	111	15- 6-33
Monkton, William	Rosedale	322	26- 7-20
Moore, James H.	Coleman	167	17-11-11
Moore, Thomas E.	Eyremore	56	11- 1-09
Moran, James Jr.	Edmonton	342	10-12-38
Morel, Marcel E.	Ghost Pine (duplicate)	78	29-10-46
Morgan, Ernest	Blairmore	15	13- 7-31
Morgan, Owen	Coleman	143	3- 7-11
Morgan, Robert M.	Coleman	160	10- 7-17
Morgan, William J.	Canmore	64	11-12-14
*Morris, David	Edmonton	45	24- 2-08
Morris, David	Bellevue	720	7- 6-29
Morris, John	Bellevue	30	20- 7-45
Morris, Robert L.	Coleman	294	10- 6-38
Morris, Robert S.	Aerial	745	12- 7-29
Morris, William	Cadomin	744	12- 7-29
Morrison, Malcolm	Coleman	189	30-12-11
Morrison, Neil	Mercoal	26	15- 7-41
*Morse, Alfred T.	Drumheller	172	17- 7-17
Morse, William J.	Hanna	156	12- 6-34
Mossey, Robert	Frank	507	17- 5-23
Mossey, Thomas M.	Lethbridge	237	5- 7-18
Mossom, John	Drumheller	734	17- 6-29
Mottishaw, Walter R.	Bellevue	13	16- 7-45
Mrokwia, Victor Jr.	Canmore	285	7- 6-38
Muir, Alexander	Hardieville	12	10- 3-14
Muir, Alexander	Coleman	593	20- 7-25
Muir, David	Lundbreck	151	8- 7-11
Muir, George	Edmonton	265	13- 7-37
Muir, James	Bankhead	57	5-12-14
Muir, James	Edmonton	137	28-12-33
*Muir, Robert	Bankhead	21	23- 3-14
Muir, Thomas	Coalhurst	800	18-10-30
Mullinger, William H.	Three Hills	35	20- 8-41
Muncy, Howard C.	Foreman	693	16- 8-28
Munro, William K.	Lille	150	4- 7-11
Murray, David	Hillcrest	35	26- 5-14
Murray, John	Lille	174	17-11-11
Murphy, Peter J. Jr.	Drumheller	325	15- 8-38
Musgrove, Henry B.	Canmore	674	19- 7-28
Musgrove, William	Canmore	9	23- 8-00
MacAskill, Alexander	Drumheller	380	1- 8-21
Macaulay, John C.	Coalhurst	678	19- 7-28
MacDonald, Clyde P.	Bellevue	685	1- 8-28
MacDonald, George G.	Beverly	242	14- 1-37
MacDonald, Leslie M.	Bellevue	713	7- 6-29
MacDonald, William	Drumheller	431	29- 8-21
MacKay, Duncan	Mercoal	7	16- 7-45
MacKay, William J. K.	Coalspur	240	28- 1-19

LIST OF NAMES OF HOLDERS OF THIRD CLASS CERTIFICATES—Continued

Name	Address	Cert. No.	Date of Issue
MacKenzie, John	East Coulee	299	13- 6-38
MacLeod, Lloyd	Coalhurst	725	7- 6-29
MacLeod, Roderick	Coleman	470	31- 7-22
MacNeil, James	Cadomin	537	17- 8-23
MacPherson, John M.	Coalhurst	257	26- 6-19
MacPherson, Norman T.	Heisler	82	16- 7-51
MacQuarrie, Hector	Drinnan	364	22- 6-39
McAllister, David	Mountain Park	613	1- 8-25
McAllister-Thompson, D. S. B.	Rosedale	735	17- 6-29
McAndrew, John	Lovett	83	19- 8-15
*McAndrew, John Jr.	Blairmore	769	4- 6-30
McAndrew, Robert	Clover Bar (duplicate)	196	3- 4-18
McColl, Alexander	Lethbridge	109	15- 6-33
*McCormack, A. D.	Castor	675	19- 7-28
McCubbrey, James	Drumheller	458	31- 7-22
McCulloch, Alex	Lille	43	18- 4-05
McCulloch, Archibald	Coleman	349	8- 6-39
McCulloch, Johnston	Coleman	642	30- 7-26
McCutcheon, James A.	Midlandvale	803	18-10-30
McDade, John	Drumheller	290	8-11-19
McDevitt, James J.	Tofield	129	22-12-10
McDicken, James	Coleman	251	26- 6-19
McDonald, Duncan	Canmore	112	2- 6-10
*McDonald, Hector	Bankhead	115	3- 6-10
McDonald, George	Drumheller	212	1- 6-18
McDonald, J. A.	Blairmore	44	18- 4-05
McDonald, James A.	Lille	91	29-11-09
McDonald, James O. C.	Coleman	225	25-11-12
McDonald, James W.	Mountain Park	709	1- 5-29
McDonald, John H.	Edmonton	164	10- 7-17
McDonald, Kenneth L.	Bellevue	40	17- 7-42
McDonald, Noble M.	Bellevue	5	28-11-13
McDonald, Thomas	Rosedale	653	12- 8-27
McDonald, William	Bellevue	777	10- 6-30
McDonald, William C.	Lethbridge	122	16- 7-10
*McDonald, William I.	Drumheller	235	22- 6-36
McEachern, Malcolm	Wayne	531	17- 8-23
McFegan, Alex	Drumheller	661	10- 9-27
McFegan, Robert	Brule	255	26- 6-19
McGarry, Martin	Michel, B.C.	59	19- 1-09
McGaw, A. M. S.	Carmangay	398	1- 8-21
McGough, Joseph P.	Bellevue	219	18-11-12
McGladrie, Andrew	Lethbridge	423	1- 8-21
McGladrie, John	Lille	152	8- 7-11
McGladrie, Robert I.	Nevis	63	24- 7-43
McGowan, James K.	Lethbridge	13	10- 3-14
McGowan, John	Drumheller	57	2- 6-32
McGowan, William	Lethbridge	317	26- 7-20
McGregor, Alex	Frank	41	16- 1-05
McGregor, Alexander	Lethbridge	271	26- 7-37
McGregor, Thomas B.	Lethbridge	417	1- 8-21
McGuckie, J. M.	Wayne	97	3- 8-44
McGuire, George	Dinant	466	31- 7-22
McGuire, James S.	Dinant	467	31- 7-22
McIlveen, William	Lovett	80	19- 8-15
McIntyre, Arnold J.	Mercoal	331	7- 9-38
McIntyre, John R.	Mercoal	107	18- 7-47
McIntyre, Joseph P.	Coleman	92	18- 7-47
McIsaac, John D.	Burmis	45	17- 7-42
McKay, John J.	Lethbridge	5	19-11-98
McKean, George J.	Bellevue	121	10- 7-16
McKenna, Harry	Pocahontas	376	17- 6-21
McKinlay, James	Huxley (duplicate)	224	3- 6-36
McKinnie, John	Drumheller	369	26- 7-20
McKinnon, A. J.	Canmore	62	29- 1-09
McKinnon, Alexander	Coleman	632	30- 7-26
McKinnon, H. G.	Canmore	36	5-12-04
McKinnon, John L.	Coleman	189	4- 9-17
McLafferty, Daniel	Bellevue	50	26- 7-42
McLafferty, Hugh P.	Bellevue	12	16- 7-49
McLafferty, P.	Bellevue	551	1-11-23
McLaren, Fred	Dinant	341	14-11-38
McLaren, Ian	Cadomin (duplicate)	38	19- 6-50
McLaughlin, Michael	Luscar	403	30-10-39
McLean, William	Mountain Park	122	10- 7-16
McLeary, Stewart	Lethbridge	58	12- 1-09
McLellan, John A.	Lovett	77	8- 5-15
McLenhan, John A.	Strathcona	51	8- 6-08
McLennan, George A.	Drumheller	534	17- 8-23
McLeod, Allan	Rosedale	543	1- 9-23
McLeod, Arthur	Drumheller	50	22-10-31
McLeod, Gordon J.	Mountain Park	422	1- 8-21
*McLeod, John A.	Edmonton	74	8- 3-15
McLeod, John R.	Bellevue	591	27- 5-25

LIST OF NAMES OF HOLDERS OF THIRD CLASS CERTIFICATES—Continued

Name	Address	Cert. No.	Date of Issue
McMillan, Alexander	Rosebud	34	28- 7-41
McMillan, Daniel	Drumheller	149	7- 7-17
McMillan, Donald	Coleman	107	31- 5-10
McMillan, James	Mountain Park	66	11- 8-43
McMillan, William	Rosebud	168	26- 7-34
McMillan, William D.	Lethbridge	72	25- 2-09
McMullen, Sidney G.	Drumheller	311	22- 6-38
McMullin, Joseph	Hillcrest	171	17-11-11
McMurdo, Thomas	East Coulee	18	13- 7-31
McNab, Duncan	Lethbridge	739	17- 6-29
McNab, Murdoch	Coalhurst	419	1- 8-21
McNeil, Thomas	Mountain Park	36	4- 3-42
McQueen, Alexander	Mercoal	101	5-10-44
McQueen, Andrew	Nordegg	124	19- 7-16
McQueen, George	Nordegg	270	26- 6-19
McQueen, Thomas A.	Mercoal	64	27- 7-46
McVey, William	Frank	39	10- 1-08
Naegeli, Otto	Midlandvale	54	26- 2-32
Nanson, Thomas H.	Canmore	15	3- 1-07
Nedimovich, Stanley	Mercoal	110	18- 7-47
Negrello, Mike	Coalhurst	7	13- 7-31
Nelson, Horatio	Lundbreck	11	3- 1-07
Nelson, John	Rosedale	356	8- 6-39
Nelson, John B. H.	Dinant	335	19- 9-38
Neumann, Theodore O.	Cadomin	4	16- 7-49
Niblett, Ronald J.	Rosedale	41	17- 7-42
Nicholson, Peter	Cadomin	472	31- 7-22
Nicol, George	Pocahontas	27	21- 4-14
*Nicol, James	Frank	34	26-12-07
Nielsen, Nils F.	Carbondale	223	3- 6-36
Nisbet, George	Beverly	759	4- 6-30
Niskanen, Herman	Canmore	671	19- 7-28
Norman, John	Beverly	136	31-10-33
Norris, Fred A.	Mountain Park	32	25- 7-45
North, Walter J.	Blairmore	204	18- 4-18
*Novak, Mike	Milk River	56	4- 5-32
Nugent, Bernard	Taber	133	30- 8-16
Oakes, Robert	Bankhead	104	10- 6-16
Oakley, John	Mountain Park	115	10- 7-16
O'Brien, Anthony	Gadsby	244	10- 3-37
O'Donnell, Thomas	Kipp	139	17- 3-11
Olah, Julius	Shaughnessy	8	16- 7-49
Oldham, Albert	Luscar	579	11- 8-24
Olesky, Samuel P.	Mountain Park	77	14- 7-44
Oliphant, John	Bellevue	79	16- 7-09
Oliphant, J. H.	Frank	26	17- 5-07
Olitch, Charles	Bellevue	48	18- 7-46
Oliver, B.	Magrath	342	26- 7-20
Oliver, Edward	Taber	584	14-11-24
Olynek, Edward	Bellevue	42	19- 7-50
Ondrik, John F.	Coleman	16	16- 7-45
Ondrus, John P. P.	Coleman	39	19- 7-50
O'Neill, Henry J.	Nordegg	28	20- 7-45
O'Neill, Michael	Nordegg	748	9- 8-29
Ordge, John	Donalda	80	25- 7-32
Ostler, James	Taber	445	22- 5-22
Oswald, Joseph	Drumheller	178	10- 9-34
Otrasek, Michael	Aerial	93	20- 7-44
Ottewell, Cedric P.	Clover Bar	620	25-11-25
Ottewell, William J.	Clover Bar	245	31- 7-13
Owen, Thomas	Michel, B.C.	442	10- 3-22
Owens, John	Midlandvale	177	4- 9-34
Oxbury, John	Benyon	327	26- 8-38
Paavola, Henry	Canmore	45	18- 7-46
Padgett, Albert	Bellevue	177	17- 7-17
Page, Joseph	Kindersley (duplicate)	107	25- 2-48
Painter, J. A.	Bankhead	361	26- 7-20
Panchysyn, Edward J. J.	Blairmore	41	19- 7-50
Panek, Albin F.	Coleman	44	18- 7-46
Park, Alex C.	Lethbridge	25	8- 4-14
Park, Angus	Edmonton	773	4- 6-30
Park, Stewart G.	Lethbridge	121	25- 6-10
Park, William	Lethbridge	194	13- 7-12
Parker, Jack	Cardiff	165	27- 6-34
Parker, Joseph	Drumheller	47	25-11-14
Parker, Levi	Bellevue	100	18- 1-10
Parkes, John T.	Lethbridge	236	31- 7-13
Parkinson, Harry	Coleman	465	31- 7-22
Parobchak, F.	Carbondale	353	8- 6-39
Parry, Joseph	Mercoal	316	8- 7-38
Parry, Robert	Coleman	546	15- 9-23
Parry, Thomas	Hillcrest	119	21- 6-10
Pascoe, Thomas	Mountain Park	796	14- 7-30
Pasechnik, Archie	Nordegg	24	16- 7-49

LIST OF NAMES OF HOLDERS OF THIRD CLASS CERTIFICATES—Continued

Name	Address	Cert. No.	Date of Issue
Passey, Thomas R.	Rosedale	111	13- 7-48
Passoli, E. L.	Vulcan	314	4- 7-38
Paterson, Patrick	Evansburg	139	3-10-16
Paterson, Samuel E.	Blairmore	778	10- 6-30
Paton, George	Delburne	727	7- 6-29
Patterson, John	Hillcrest	126	17-12-10
Patterson, William	Blairmore	515	17- 8-23
*Pavier, Evan	Coleman	91	27- 8-15
Pearson, Francis	Hillcrest	468	31- 7-22
Perini, Angelo	Granlea	194	10- 6-35
Perini, John	Lethbridge	159	9- 6-34
Perry, James E.	Benyon	612	25- 7-25
Peta, Frank	Lethbridge	104	24-10-44
Peta, Julius	Hardieville	225	4- 6-36
Peters, Frederick C.	Wayne	582	25- 9-24
Peters, William E.	Blairmore	762	4- 6-30
Petit, Jules A.	Newcastle	71	14- 7-44
Petrosky, M. J.	Coleman	96	20- 7-44
Pettigrew, Robert	Coleman	20	13- 7-31
Phillips, Alfred J.	Coleman	146	5- 6-34
*Phillips, Charles	Frank	14	30-12-02
Phillips, David	Commerce	110	10- 7-16
Phillips, W. J.	Saunders	733	17- 6-29
Phillips, W. T.	Castor	99	10- 6-33
Phipps, Mathew J.	Mountain Park	494	1- 9-22
Pickard, Joseph	Edmonton	592	20- 7-25
Pickering, G.	Taber	104	25- 2-10
Picton, Daniel	Passburg	178	23-11-11
Picton, William	Frank	78	8- 7-09
Pierzchala, John T.	Hillcrest	18	16- 7-49
Pike, Sidney G.	Drumheller	119	24- 7-33
Piper, John J.	Canmore	716	7- 6-29
Pitt, Arthur J.	Coleman	108	10- 7-16
Plesuk, William	Beverly	357	8- 6-39
*Poholka, Steve	Edmonton	149	9- 6-34
Pollitt, Alexander	Alexo	78	16- 7-51
Poole, Alexander	Drumheller	241	16- 5-19
Popovich, Mike	Champion	112	3- 7-33
Porteous, Alexander	Hillcrest	36	26- 5-14
Potter, Albert T.	Drumheller	88	18- 7-47
Potter, Harry	Drumheller	797	8- 8-30
Potter, I. N.	Nacmine	167	26- 7-34
Pounder, George	Pincher Creek	84	22- 9-09
Powell, Albert E.	Clover Bar	71	4- 2-09
Powell, John E.	Newcastle	700	22- 8-28
Poxton, Wilfred	Carbon	555	15-11-23
Pratt, Philip	Lovettville	117	10- 7-16
Premoroko, Peter	East Coulee	21	16- 7-49
Prentice, John	Lille	67	1- 2-09
Prescott, William	Hillcrest	249	26- 6-19
Price, Alfred	Edmonton	103	4- 1-16
*Price, John	Mountain Park	116	10- 7-16
Price, John	Mountain Park	497	1-11-22
Price, John C.	Coleman	377	4- 7-39
Price Richard	Hillcrest	590	21- 4-25
Price, Stanley R.	Blairmore	9	13- 7-31
Price, William M.	Midlandvale	62	19- 7-50
Price, William T.	Edmonton	195	14- 6-35
Prokopetz, Walter	Alexo	85	16- 7-51
Protti, Sam	Mercoal	63	19- 7-50
*Puckett, Owen L.	Lovett	53	27-11-14
Pullen, Peter F.	Alexo	6	16- 7-49
Purdy, Denzil	Lundbreck	237	4- 7-36
Purdy, Stearns J.	Bellevue	37	28- 5-14
Quaife, Delbert C.	Rimbey	74	15-10-46
Queen, Andrew M.	Lethbridge	228	26-12-12
Quigley, Daniel H.	Lethbridge	157	14- 7-11
Quin, James	East Coulee	66	25- 6-32
Radford, James	Bellevue	200	22- 7-12
Radford, James T.	Bellevue	132	15- 9-33
Radford, J. H.	Heisler	738	17- 6-29
Radocy, Isaac C.	Aerial	23	13- 7-31
Radocy, Kenneth	Aerial	70	14- 7-44
Rae, Alex	Blairmore	47	18- 7-42
Rae, John	Coleman	242	31- 7-13
Raeder, William	Elkwater	110	15- 6-33
Raisbeck, A. B.	East Coulee	785	10- 6-30
Raisbeck, James	East Coulee	215	29- 8-35
Raisbeck, Luke	East Coulee	330	7- 9-38
Raisbeck, Robert M.	Drumheller	213	12- 8-35
Ramage, John	Coalhurst	648	12- 8-27
Ramsay, Hector M.	East Coulee	102	18- 7-47
Randall, David	Coleman	191	10-10-17
Rankin, William	Hosmer, B.C.	4	28-11-13

LIST OF NAMES OF HOLDERS OF THIRD CLASS CERTIFICATES—Continued

Name	Address	Cert. No.	Date of Issue
Rappel, A. J.	Calgary	355	26- 7-20
Rappel, Thomas	Rosedale	337	26- 7-20
Rasmussen, Harold M.	Bremerton, Wash.	109	28- 6-49
Ratcliffe, Thomas	Drumheller	24	13- 7-31
Rawlinson, Rowland	Burmis	182	28-11-11
Rawson, Thomas S.	Frank	1	20-12-05
Ray, William J.	Hillcrest	669	22- 4-28
Raymond, Henry	Coleman	64	19- 7-50
Rayner, Frederick	Frank	188	8-12-11
Rear, Albert E.	Corbin, B.C.	728	7- 6-29
Rebar, George	Lethbridge	229	22- 6-36
Rebar, Mike	Hardieville	19	18- 3-14
Redpath, James	Wayne	208	1- 6-18
Reed, John C.	Edmonton	779	10- 6-30
Rees, Daniel	Bellevue	56	27-11-14
Rees, Daniel	East Coulee	270	24- 7-37
Rees, Edward D.	Bellevue	105	15- 6-33
Rees, Ernest	Hillcrest	686	1- 8-28
Rees, Homer	Beverly	96	12-10-15
Rees, Sandford	Mountain Park	81	28- 7-32
Reese, William H.	Lethbridge	435	29- 8-21
Reid, Edward	Drumheller	206	1- 6-18
Reid, James	Taber	158	24- 7-11
Reid, Samuel	Beverly	211	1- 6-18
Reid, William P.	Lethbridge	732	17- 6-29
Reissig, Erich	Willow Creek	388	12- 8-39
Remillard, Omer V.	Castor	304	22- 6-38
Reynolds, Arthur E. V.	Mercoal	404	10-11-39
Reynolds, Horace C.	Canmore	11	13- 7-31
Rhodes, George	Champion	96	10- 6-33
Rhodes, Harold	Robb	36	1- 8-45
Rhodes, William B.	Lundbreck	625	26- 7-26
Rice, Awrey	Frank	48	18- 4-05
Rich, Frank	Saunders	48	19- 7-50
Richards, Clifford	Hillcrest	17	11- 7-41
*Richards, Edward	Drumheller	271	26- 6-19
Richards, Evan	Cardiff	162	17-11-11
Richards, George	Coleman	137	31-12-10
Richards, Harold	Hillcrest	484	1- 8-22
Richards, John C.	Coleman	386	1- 8-21
Richards, Lorenzo	Coleman	142	5- 6-34
Richards, Lorenzo C.	Coleman	286	7- 6-38
Richards, M. C. Russell	Edmonton	509	17- 5-23
Richards, Samuel	Corbin, B.C.	175	17-11-11
Richards, Thomas	Wayne	392	1- 8-21
Richardson, Alfred	Lethbridge	125	17-12-10
Richardson, E. H.	East Coulee	205	17- 7-35
Richardson, John	Camrose	393	1- 9-39
Ridgeway, Leonard J.	Coalhurst	457	31- 7-22
Riordan, Leo	Drumheller	173	13- 8-34
Riva, Joseph	Canmore	288	8- 6-38
Robbins, John	Drumheller	390	17- 8-39
Robert, David C.	Coleman	113	10- 7-16
Roberts, David O.	Edmonton	106	7- 7-16
*Roberts, E.	Passburg	118	20- 6-10
Roberts, Evan	Wayne	318	26- 7-20
Roberts, Horace	Drumheller	251	11- 6-37
Roberts, John	Nelson, B.C.	140	6- 4-11
Roberts, Lemuel	Wayne	488	1- 8-22
Roberts, Robert	Wayne	464	31- 7-22
Roberts, Simon	Cadomin	21	13- 7-31
Roberts, William	Strathcona	95	3-12-09
Roberts, William	Rosedale	11	4- 9-40
Robertson, Alexander	Lethbridge	633	30- 7-26
Robertson, Duncan	Drumheller	47	26- 7-31
Robertson, W. J.	Coalhurst	333	26- 7-20
Robinson, Edward	Drumheller	101	28-10-15
Robinson, John H.	Hillcrest	106	31- 5-10
Rochester, John J.	Carbon	689	1- 8-28
Rock, Millan	Cadomin	27	16- 7-49
Rogers, Benjamin	Canmore	753	5-11-29
Rolfe, Emrys	Hillcrest	691	16- 8-28
Rollingson, John	Lethbridge	280	26- 6-19
Roome, Herbert	Mountain Park	44	17- 7-42
Roome, John	Mountain Park	49	26- 7-42
*Roome, Richard	Mountain Park	588	24- 1-25
Rose, Walter	Lundbreck	54	25- 8-08
Ross, A. W.	Delia	124	29- 7-33
Rota, Steve	Champion	219	29- 8-35
Rowbotham, William H.	Royal View	116	6- 6-10
Rowley, Arthur	Calgary	455	31- 7-22
Royle, Edward	Hillcrest	323	26- 7-20
Rozzolini, Albert	Raymond	126	29- 7-33
Ruaben, Ittalo J.	Shaughnessy	22	16- 7-49

LIST OF NAMES OF HOLDERS OF THIRD CLASS CERTIFICATES—Continued

Name	Address	Cert. No.	Date of Issue
Ruffee, Harry G.	Nacmine	204	9- 7-35
Runge, William	Rosalind	34	26- 7-45
Ruscoe, Richard	Halkirk	282	26- 6-19
Russell, Arthur	Standard	59	5-12-14
Russell, John	Mitford	67	20- 1-15
Russell, Robert	Alix	69	25- 6-32
Russell, William C.	Drumheller	705	24-11-28
Rutherford, Leslie D.	Saunders	565	6- 5-24
Rutherford, Wilson	Drumheller	583	30-10-24
Ryning, James W.	Rowley	383	4- 7-39
Salmond, James M.	Bankhead	6	20-12-05
Samis, Kenneth E.	Namao	402	18-10-39
Samis, Stewart M.	Namao	34	16- 7-49
Sandino, Joseph	Bellevue	238	31- 7-13
Sarsfield, William	East Coulee	273	27- 8-37
Sartore, Lucien	Mercoal	101	18- 7-47
Saunders, Herbert A.	Cardiff	76	2- 7-32
Saunt, James	Edmonton	309	26- 7-20
Saville, James	Midlandvale	56	19- 7-50
Scarpino, Eugene M.	Rosedale	389	14- 8-39
Schlender, Otto	Trochu	118	6- 7-33
Schmidt, O. P.	Edmonton	44	1- 2-08
Schneider, Nick	Dimsdale	197	28- 6-35
Schnepf, Karl J.	Rosebud	6	2- 8-40
*Schon, Karl	Edmonton	140	13- 7-48
Schymizek, John	Bright Bank	302	22- 6-38
Scott, Alexander	Pocahontas	185	28-11-11
Scott, Andrew N.	Edmonton	28	23- 5-07
*Scott, Frederick G.	Nordegg	287	2- 9-19
*Scott, Hugh	Lethbridge	8	5- 6-99
Scott, J. D.	Rosedale	722	7- 6-29
Scott, Robert	Lethbridge	6	19-12-98
*Scott, Robert	Mountain Park	399	1- 8-21
Sedlock, Joseph	Canmore	22	25- 6-03
Semeniuk, Steve	Shaughnessy	58	20- 7-43
Senycz, John J.	Bellevue	84	18- 7-47
Sernecky, Mike	Alexo	54	19- 7-50
Serrie, John	Taber	353	26- 7-20
Severns, Matthew	Montana (duplicate)	621	11- 5-26
Shandruk, Henry K.	Edmonton	695	16- 8-28
Shanks, David	Nordegg	46	19- 7-50
Sharretta, John	Blairmore	55	20- 7-46
Shaw, Eli	Canmore	229	30- 4-13
Shaw, John H.	Nordegg	426	1- 8-21
Shaw, Joseph H.	Nordegg	416	1- 8-21
Shaw, Robert	Coleman	226	22- 6-36
Shaw, Thomas J.	Canmore	113	3- 6-10
Shaw, Tom	Bellevue	202	18- 4-18
Shaw, William G.	Nordegg	409	1- 8-21
Shearer, J. C.	Rosedale	749	9- 8-29
*Shearer, Peter	Cadomin	640	22- 9-26
Shellian, Andrew F.	Canmore	11	16- 7-45
Shephard, W. L.	East Coulee	92	20- 7-44
Shepherd, George E.	Wayne	477	1- 8-22
Sheridan, Daniel	Lacombe	296	11- 6-38
Sheratt, Owen Sr.	Coleman	199	13- 7-12
Sherwood, Harry R.	Canmore	751	8- 8-29
Shevels, John	Bellevue	523	17- 8-23
Shields, Alexander M.	Midlandvale	10	16- 7-49
Sihvon, William	Bellevue	27	17- 5-07
Sikora, John Jr.	Coleman	68	29- 7-46
Simla, Joe	Coleman	10	16- 7-45
Simmons, Efner W.	Forestburg	611	25- 7-25
Simons, B.C.	Bellevue	36	26- 7-31
Simpson, Edward	Edmonton	300	22- 6-38
Simpson, Frank	Nacmine	206	22- 7-35
Sinal, Martin, Jr.	Cadomin	50	19- 7-50
Sinclair, James	Drumheller	68	22- 1-15
Singleton, Robert	Lundbreck	47	29- 5-08
Sinoski, Mike	Edmonton	791	14- 6-30
Sinoski, Steve	Edmonton	252	11- 6-37
*Sippell, Joseph	Drumheller	295	1-12-19
Sirko, Tibor	Rosedale	319	21- 7-38
Sladek, Anton Jr.	Rosedale	90	18- 7-44
Sladek, Henry	Rosedale	53	19- 7-46
Small, Samuel	Luscar	118	13- 7-48
Smillie, John	Drinnan	152	9- 6-34
Smillie, Walter	Evansburg	772	4- 6-30
Smith, A. J. P.	Bellevue	103	21- 2-10
Smith, Andrew A.	Drumheller	522	17- 8-23
Smith, Charles E.	Rosebud	396	12- 9-39
Smith, Harry	Drumheller	338	21-10-38
Smith, Hugh	Canmore	35	5-12-04
Smith, James	Wayne	211	10- 8-35

LIST OF NAMES OF HOLDERS OF THIRD CLASS CERTIFICATES—Continued

Name	Address	Cert. No.	Date of Issue
Smith, James	Nordegg	9	3- 8-40
Smith, James H.	Beverly	128	13- 7-48
Smith, John	Blairmore	94	1- 9-15
Smith, John A.	Cadomin	31	13- 7-31
Smith, Peter	Coleman	718	7- 6-29
Smith, Ralph	Canmore	3	30- 5-06
Smith, Robert	Canmore	32	5-12-04
Smith, Sydney L.	Drumheller	552	1-11-23
Smith, T. Edwin	Yetwood	130	26- 7-16
Smith, Terence	Edmonton	646	1- 8-27
Smith, Thomas	Hillcrest	216	1-11-12
Smith, Thomas	Coleman	307	26- 7-20
Snarey, George	Taber	62	5-12-14
Sneddon, Thomas	Taber	444	3- 4-22
Snow, Percy E.	Lethbridge	729	7- 6-29
Sorro, Christopher	Blairmore	203	18- 4-18
Sparrow, Edwin	Frank	2	20-12-05
Speaker, Pete A.	Calgary	489	1- 9-22
Spencer, Murray A.	Lovett	43	18- 9-14
Spencer, W. J.	Bankhead	51	6- 7-05
Spensley, Thomas Jr.	Drumheller	68	16- 7-51
*Sprella, Martin	Willow Creek	163	19- 6-34
Staite, Albert E.	Trochu	56	20- 7-43
Stanko, Martin	Drumheller	13	13- 7-31
Stanley, Henry	Nacmine	615	1- 8-25
Steele, Francis M.	Pincher Creek	319	26- 7-20
Steele, John W.	Lethbridge	17	16- 3-14
Steen, Alf C.	Rosedale	398	16- 9-39
Steen, Herman	Hanna	277	26- 6-19
Stene, Alexander	Cadomin	10	13- 7-31
Stene, David	Edmonton	430	29- 8-21
Stene, Wm. V.	Cadomin	88	17- 7-44
Stephenson, Joseph	Commerce	232	30- 4-13
Stephenson, Thomas	Bellevue	230	7- 4-13
Steven, Robert	Banff	701	22- 8-28
Stevenson, Morris	Drumheller	218	25- 9-35
Stevenson, Robert	Drumheller	757	25- 3-30
Steward, Frederick G.	Drumheller	624	26- 7-26
Stewart, George W.	Nordegg	677	16- 1-28
Stewart, James	Lethbridge	305	26- 7-20
Stewart, James Jr.	Lethbridge	120	13- 7-48
Stewart, James M. Jr.	Nordegg	281	7- 3-38
Stewart, R. E.	Shaughnessy	802	18-10-30
Stobbs, Joseph	Diamond City	217	5-11-12
Stocco, Reno	Drumheller	31	23- 7-45
Stott, John	Lethbridge (duplicate)	231	7- 4-13
Strachan, John	Fernie, B.C.	437	29- 8-21
Strader, Donald M.	Gadsby	108	18- 7-47
Strang, David	Mountain Park	746	23- 7-29
*Stratton, Andrew T.	Redcliffe (duplicate)	329	7- 9-38
Stratton, James M.	Taber	181	25- 7-17
Stratton, Robert	Langford Park	22	17- 7-45
Strecker, John	Rosedale	29	20- 7-45
Streich, Paul	Ardley	202	8- 7-35
Strickland, William	Evansburg	145	5- 7-17
*Studholme, John H.	Dinant	559	18-12-23
Surrendi, Nick	Wayne	73	14- 7-44
Susnar, Alexander	Kaydee	52	18- 7-46
*Sutherland, E. S.	Beverly	395	1- 8-21
Sutherland, S. R.	Bellevue	782	10- 6-30
Swan, Harry	Priddis	307	22- 6-38
Swanston, Matthew	East Coulee	392	1- 9-39
Sward, Henry	Rose Lynn	104	10- 6-33
Tait, Burton	Edmonton	1	16- 7-45
Talbot, Walter J.	Clover Bar	533	17- 8-23
Talbot, William	Drumheller	235	22- 6-18
Tamborini, Bruno	Bellevue	20	16- 7-45
Tannucci, Joseph	Nordegg	485	1- 8-22
Taylor, Edward	Groton	154	9- 6-34
Taylor, John	Drumheller	649	1- 8-27
Taylor, Robert	Calgary	85	24- 8-32
*Taylor, Thomas	Lundbreck	30	23- 5-07
Taylor, William	Lethbridge	10	16- 4-01
Taylor, William	Midlandvale	514	17- 8-23
Teasdale, J. R. W.	Drumheller	540	1- 9-23
*Tennant, James	Mountain Park	358	8- 6-39
Tennant, John	Lethbridge	165	10- 7-17
Tennant, Robert	Lethbridge	84	19- 8-15
Tennant, William G.	Lethbridge	228	8- 6-18
*Teppo, Herman	Bellevue	19	3- 1-07
Terris, Andrew	Nordegg	170	17- 7-17
*Terris, Chapen	Saunders	429	1- 8-21
Thackray, Fred	Taber	281	26- 6-19
Thirlwell, William	Robb	4	20- 2-31

LIST OF NAMES OF HOLDERS OF THIRD CLASS CERTIFICATES—Continued

Name	Address	Cert. No.	Date of Issue
*Thom, George	Pocahontas	142	12-12-16
*Thomas, David	Bankhead	31	5-12-04
Thomas, David R.	Ryley	241	6-11-36
Thomas, David R.	Luscar	379	4- 7-39
Thomas, David S.	Midlandvale	55	21- 3-32
Thomas, Edward J.	Drumheller	706	24-11-28
Thomas, Isaac	Coleman	204	27- 7-12
Thomas, John B.	Edmonton	46	19-11-14
Thomas, John J.	Frank	74	21- 4-09
*Thomas, Joseph D.	Frank	81	25- 8-09
Thomas, William	Luscar	38	26- 7-31
Thomason, Charles	Michel, B.C.	234	14- 6-18
Thompkins, David F. R.	Foothills	659	1- 9-27
Thompson, Andrew	Aerial	267	26- 6-19
Thompson, John W.	Drumheller	274	1- 9-37
Thompson, Joseph	Coleman	165	17-11-11
Thompson, Thomas	Lundbreck	16	3- 1-07
Thompson, Thomas	Coleman	93	29-11-09
Thomson, Alexander	Edmonton	141	5- 6-34
Thomson, David	Lovett	82	19- 8-15
Thomson, George H.	Lethbridge	433	29- 8-21
Thomson, James	Beverly	425	1- 8-21
Thomson, John	Edmonton	758	4- 6-30
Thomson, John D.	Drinnan	360	8- 6-39
Thomson, Roger A.	Lovett	66	22-12-14
Thomson, Thomas W.	Bankhead	161	17-11-11
Thomson, Walter	Clover Bar	628	26- 7-26
Thomson, William	Edmonton	683	1- 8-28
Thornhill, John E.	Coalhurst	482	1- 8-22
Tiberg, Alrik N.	Blairmore	38	17- 7-42
Tiberghiem, A. J.	Coleman	264	23- 6-37
Tiffin, Richard	Coleman	188	10- 6-35
Tilley, John C.	Bellevue	511	30- 6-23
Timm, Paul	Willow Creek	77	23-10-46
*Tinsley, Albert J.	Rosedale	381	4- 7-39
Tisdale, James R.	Nordegg	231	8- 6-18
Tomsich, John	Mercoal	18	16- 7-45
Tonge, Reginald	Blairmore	90	30- 9-32
Tonge, Thomas	Lundbreck	5	30- 5-06
Topak, Peter	Coleman	55	14- 7-43
Travis, Joseph	Bankhead	303	26- 7-20
Trentham, Harry	Ghost Pine	536	17- 8-23
Treventhin, Mark	Wayne	305	22- 6-38
*Troman, Samuel	Lethbridge	87	26- 8-15
Tucker, John M.	Entwistle	528	17- 8-23
Tully, Thomas	Fernie, B.C.	215	1-11-12
Turner, Leonard	Nordegg	125	19- 7-16
Turner, Samuel H.	Frank (duplicate)	22	8- 5-07
Turner, William	Hillcrest	244	31- 7-13
Turner, William A.	Halcourt	262	23- 6-37
Turner, William H.	Blairmore	525	17- 8-23
Tyldsley, Albert	Beverly	545	1- 9-23
Tyrer, Edward	Lethbridge	5	13- 7-31
Tyrer, Harold	Lethbridge	70	25- 6-32
Tyrlik, Joseph	Heisler	79	16- 7-51
Unsworth, George	Scapa	399	12-10-39
*Unsworth, Robert J.	Scapa	704	24-11-28
Urwin, Henry	Canmore	123	29- 7-33
Urwin, James	Coleman	95	28- 7-44
Utley, Frederick W.	Bellevue	250	26- 6-19
Valentini, Marcelli	Bow Island	309	22- 6-38
Vanbesien, Jules	Champion	366	22- 6-39
Van De Kinder, Maurice F.	Cambria	61	24- 7-46
Van Duncombe, Walter	Taber	394	12- 9-39
Vannucci, Luigi	Brule	629	26- 7-26
Van Schoorl, August	Coleman	228	22- 6-36
Vasek, Louis M.	Coleman	6	16- 7-45
Vaselenak, Michael P.	Lethbridge	159	10- 7-17
Vickers, William A.	Taber	443	10- 3-22
Villard, Henry	Wayne	450	31- 7-22
Vining, Samuel	Luscar	635	30- 7-26
Vitaly, Mike L.	Namao	351	8- 6-39
Vivyurka, John	Mercoal	44	26- 7-31
Vola, Serafino	Canmore	63	1- 2-09
Voynovich, Rade	Robb	104	18- 7-47
Waddington, Daniel M.	Coleman	259	23- 6-37
Waggoner, Bernard	East Coulee	7	16- 7-49
Waite, Archibald	Taber	11	6- 7-03
Wakaruk, George	Newcastle	67	26- 7-46
Wakaruk, (Walker), John J.	Newcastle	48	20- 7-42
Wales, Harry	St. Albert	141	13- 7-48
Walker, Charles C.	Wayne	385	1- 8-21
Walker, H. M.	Bellevue	368	26- 7-20
Walker, Ian M.	Blairmore	89	18 -7-47

LIST OF NAMES OF HOLDERS OF THIRD CLASS CERTIFICATES—Continued

Name	Address	Cert. No.	Date of Issue
Walker, William	Newcastle	66	26- 7-46
Waller, Herbert	Natal, B.C.	562	28-12-23
Wallwork, William	Taber	118	10- 7-16
Walsh, James C.	Bellevue	34	13- 7-31
Walton, George A.	Forestburg	67	25- 6-32
Wardrop, James	Georgetown	72	16- 2-15
Warneboldt, Julius	Sheerness	658	1- 9-27
Warren, Michael	Canmore	304	26- 7-20
Watkin, George E.	Bittern Lake	59	2- 6 32
Watkins, James M.	Taber	128	26- 7-16
Watkins, John W.	Canmore	3	15-11-98
Watkins, W. E.	Canmore	1	14-11-98
Watson, Adam G.	Calgary	215	1- 6-18
Watson, David	Leduc	77	11- 7-32
Watson, James	Edmonton	378	1- 8-21
Watters, A. G.	Bankhead	49	29- 5-08
Watters, David G.	Drumheller	120	29- 7-33
Watters, John	Bankhead	5	20-12-05
*Watters, John J.	Edmonton	12	19- 9-40
Weaver, William	Natal, B.C.	530	17- 8-23
Webb, James F.	Canmore	42	8- 4-05
Welsh, William R.	Lundbreck	9	3- 1-07
Wesnedge, William	Nordegg	58	5-12-14
Westcott, Henry M.	Wayne	651	1- 8-27
Weston, Thomas	Strathcona	73	7- 4-09
Wheat, Kenneth C.	Mercoal	5	16- 7-49
Wheatcroft, Fred Jr.	Drumheller	225	8- 6-18
Wheatcroft, George L.	Wayne	394	1- 8-21
Wheatley, Frank M.	Blairmore	599	20- 7-25
Wheatley, James W.	Banff	276	4-10-37
Wheeler, Albert	Clyde	282	24- 3-38
Whelan, Charles J.	Newcastle	556	4-12-23
White, Alfred	Hillcrest	389	1- 8-21
White, George	Nordegg	83	24- 8-32
White, Harry	Frank	90	29-11-09
White, Harry J.	Coalhurst	677	19- 7-28
White, James B.	Nordegg	102	24-10-44
White, John	Nordegg	210	10- 8-35
White, John M.	Lethbridge	233	14- 6-18
White, Michael	Drumheller	806	29-10-30
White, Mike	Wayne	27	20- 7-45
White, Robert	Nordegg	411	1- 8-21
White, William	Hillcrest	388	1- 8-21
White, William	Coleman	427	1- 8-21
White, William A.	Hillcrest	77	16- 7-51
Whitefield, Isaac	Coalhurst	15	10- 3-14
Whitehead, John G.	Drumheller	60	24- 7-46
Whitehead, J. W.	Lethbridge	712	7- 6-29
Whitelaw, William	Blairmore	532	17- 8-23
Whittaker, William C.	Coleman	643	25- 5-27
Whyte, David	Pipestone Creek	253	11- 6-37
Whyte, William	Lethbridge	446	16- 6-22
Wilcox, William J.	Beverly	140	11-11-16
Wilkie, John	Sheerness	405	1- 8-21
Wilkinson, James	Bragg Creek	116	3- 7-33
Willetts, Frederick	Lethbridge	162	10- 7-17
Willetts, Norman	Hillcrest	571	24- 7-24
Williams, Albert	Beverly	138	25- 9-16
Williams, D. J.	Mountain Park	35	13- 7-31
Williams, H. A.	Mountain Park	792	3- 7-30
Williams, Hugh	Nordegg	577	1- 8-24
Williams, John	Barnwell	161	16- 6-34
Williams, John J.	Bickerdike	223	25-11-12
Williams, John T.	Bellevue	33	23- 5-14
Williams, L. A.	Edmonton	768	4- 6-30
Williams, Walter	Alix	29	13- 7-31
Williams, Walter E.	Clover Bar	213	31-10-12
Williams, William	Barnwell	87	23- 9-32
Williamson, David S.	Camrose	558	18-12-23
Williamson, John B.	Cadomin	473	31- 7-22
Willmott, William	Canmore	38	10- 1-08
Wilson, Alexander	Drumheller	169	17- 7-17
Wilson, Charles	Lethbridge	130	8- 9-33
Wilson, John	Canmore	2	15-11-98
Wilson, Samuel	Drumheller	639	20- 8-26
Wilson, Samuel G.	Cadomin	123	13- 7-48
Wilson, William G.	Coleman	3	20-12-05
Wilton-Clark, Harry	Coleman	594	20- 7-25
Wiltse, Donald H.	Forestburg	688	1- 8-28
Wiltse, Floyd N.	Forestburg	125	29- 7-33
Wisla, Martin	Hillcrest	100	18- 7-47
Wisla, Michael	Hillcrest	90	18- 7-47
Wiswell, Byron	Blairmore (duplicate)	637	6- 8-26
Withington, Harry E.	Newcastle	664	14-10-27

LIST OF NAMES OF HOLDERS OF THIRD CLASS CERTIFICATES—Continued

Name	Address	Cert. No.	Date of Issue
Wojtula, Emil J.	Hillcrest	69	16- 7-51
Wolff, Alfred	Willow Creek	387	12- 8-39
Wollney, Karl	Bellevue	681	1- 8-28
Wolstoncroft, Robert	Commerce	175	17- 7-17
Womersley, Alfred	Redcliff	316	26- 7-20
Womersley, E.	Blairmore	783	10- 6-30
Wood, Matthew	Bellevue	508	17- 5-23
Woods, Robert W.	Wabamun	91	18- 7-47
Woodward, Clarence	Bellevue	94	16- 2-33
Wollett, Charles	Edmonton	379	1- 8-21
Worthington, Thomas	Lethbridge	92	1- 9-15
Worthington, Willard T.	Edmonton	75	22-10-46
Wright, Albert	Mountain Park	109	18- 7-47
*Wright, John S.	Canmore	12	3- 1-07
Wright, S. P. T.	East Coulee (duplicate)	243	1- 2-37
Wrigley, Walter	Frank	37	10- 1-08
Wukusich, John A. S.	Lethbridge	117	13- 7-48
Wylie, James	Commerce	520	17- 8-23
Wyrostok, George	Shaughnessy	51	19- 7-50
Yard, Lloyd G.	Trochu	373	22- 6-39
Yarham, John I.	Forestburg	321	8- 8-38
Yates, James	Coleman	504	15- 2-23
Yorko, Simon A.	Shaughnessy	345	8- 6-39
Young, Albert	Foreman	159	16- 6-34
Young, Charles	Newcastle	278	10-11-37
Young, David B.	Blairmore	581	25- 9-24
Young, John	Drumheller	214	29- 8-35
Young, Robert	Newcastle (duplicate)	788	14- 6-30
Young, Samuel	Cardiff	101	18- 1-10
Young, Thomas	Taber	57	11- 1-09
Young, Warren	Wayne	216	30- 8-35
Zak, Albert	Commerce	324	26- 7-20
Zambo, Joseph	Aerial	292	10- 6-38
Zaputil, Frank W.	Rosedale	397	12- 9-39
Zayezierski, Casey	Luscar	17	16- 7-49
Zboya, Peter S.	Canmore	35	16- 7-49
Zemek, Joseph	Frank	82	18- 7-47

* Deceased.

LIST OF NAMES OF HOLDERS OF MINE SURVEYORS' CERTIFICATES

Name	Address	Cert. No.	Issue Date of
Adam, William A.	Lethbridge	40	21- 8-15
*Allen, Peter	Coleman	109	23-11-15
Ashburner, Edward	Edmonton	79	1- 9-15
Aspinall, Francis	Calgary	1	7- 8-15
Atkins, Cecil B.	Evansburg	162	17- 7-23
Baxter, Andrew W.	Lethbridge	119	23-11-15
Billington, Edward E.	Coleman	42	23- 8-15
Bilteryst, Jean	Taber	72	1- 9-15
*Black, Ernest D.	Sewell, Man.	75	1- 9-15
Brown, David T.	Blairmore	6	18- 7-47
Brown, Hugh R.	Commerce	125	10- 7-16
Brown, John	Calgary	30	20- 8-15
Brown, John D. B.	Blairmore	8	18- 7-47
Brown, Thomas	Edmonton	133	17-11-17
Buesnel, Phillip R.	Calgary	5	19- 8-50
Burgess, Wilfred D.	Edmonton	169	18-12-23
*Callander, Ira C.	Pocahontas	39	21- 8-15
Cameron, Alan E.	Edmonton	154	9- 3-21
Carthew, John T.	Brule	164	17- 7-23
Cautley, Reginald H.	Edmonton	81	1- 9-15
Charbonnier, Jules	Blairmore	72	1- 9-15
Charlesworth, Lionel C.	Edmonton	22	7- 8-15
Chavignaud, Louis G.	Luscar	165	17- 7-23
Church, James A. H.	Edmonton	21	7- 8-15
Clement, Adolph L.	Calgary	158	1- 8-21
Clyburn, Norman S.	Cadomin	3	16- 7-49
Congdon, Milton H.	Blairmore	157	1- 8-21
Cook, Arnold B.	Taber	113	22-11-15
*Cote, Jean L.	Edmonton	80	1- 9-15
Coulthard, Robert W.	Calgary	20	7- 8-15
Crawford, Alexander	Edmonton	11	13- 7-48
Crawford, John	Edmonton	4	18- 7-46
*Crowder, Harry	Drumheller	152	26- 7-20
*Crowder, James	Three Hills	111	23-11-15

LIST OF NAMES OF HOLDERS OF MINE SURVEYORS' CERTIFICATES—Continued

Name	Address	Cert. No.	Date of Issue
Cumming, Charles H.	Brule	135	3- 7-18
D'Amico, Zupito	Nordegg	7	19- 7-50
Daniell, G. W. B.	Coleman	126	10- 7-16
*Darbyshire, James	Drumheller	69	1- 9-15
*Davidson, W. A.	Coleman	7	7- 8-15
Davis, Alfred	Lethbridge	114	23-11-15
DeHart, Joseph B.	Coalhurst	45	23- 8-15
Dennis, Frederick W.	Bow City	100	9- 9-15
Dewis, Clifford S.	Canmore	163	1- 8-22
Donaldson, Adam G.	Lethbridge	4	6- 8-43
Donaldson, C. S.	Lethbridge	151	26- 7-20
*Dougall, Ralph	Bankhead	49	23- 8-15
*Drinnan, Robert G.	Hillcrest	8	7- 8-15
Drinnan, R. G. Jr.	Edmonton	181	8- 8-30
*Driscoll, Alfred	Edmonton	91	7- 9-15
Drummond, Leonard E.	Edmonton	51	23- 8-15
Duggan, William H.	Beverly	84	1- 9-15
Dunn, Alex C.	Edmonton	55	23- 8-15
Dunn, Robert A.	Edmonton	16	13- 7-48
Dutton, Joseph A.	Edmonton	3	30- 7-45
Dwarkin, L. M.	Coleman	2	30-10-41
Elliott, Edward P.	Pocahontas	33	26- 8-15
Elliott, G. R.	Canmore	150	26- 7-20
Ellis, William	Champion	94	7- 9-15
Erikson, Robert G.	Mercoal	11	16- 7-51
Evans, Daniel	Edmonton	123	29-12-15
Finnie, Oswald S.	Edmonton	57	23- 8-15
Flint, William G.	Canmore	76	1- 9-15
Foot, Robert G.	Coleman	54	23- 8-15
Fortner, Edward	Rocky Mountain House	83	1- 9-15
Foster, William	Wabamun	167	1- 9-23
*Fraser, A. T.	Edmonton	121	18-11-15
Fraser, Arthur A.	Coleman	8	2- 9-37
Fraser, Norman	Edmonton	15	7- 8-15
French, Merritt H.	Calgary	3	22- 8-33
Gallon, Emile	Bellevue	89	7- 9 15
Gardner, H. H.	Coleman	180	23- 7-29
*Gheur, Ernest	Nordegg	129	22- 2-17
Glover, James R.	Bellevue	8	19- 7-50
Graham, A. E.	Coleman	168	15- 9-23
Gray, David	Wayne	110	23-11-15
Green, Raoul	Blairmore	70	1- 9-15
Hall, W. E. G.	Coleman	143	2- 7-19
Halldorson, Arni S.	Hillcrest	9	19- 7-50
Hamilton, Allan	Blairmore	131	7- 7-17
Hamilton, Duncan C.	Drumheller	10	1-10-38
Hamilton, James F.	Lethbridge	56	23- 8-15
Hamilton, Robert	Redcliff	74	1- 9-15
*Hamilton, W. L.	Passburg	117	23-11-15
*Hardie, W. D. L.	Lethbridge	50	23- 8-15
*Hargreaves, James	Drumheller	52	23- 8-15
*Harrison, Stephen	Lethbridge	85	1- 9-15
Henderson, Thomas R.	Tofield	67	1- 9-15
Hetherington, W. B.	Calgary	144	9- 7-19
Hewitt, Herbert E.	Blairmore	6	6- 8-36
Higgins, Alexander	Calgary	145	15- 7-19
Hnatyshyn, Andrew C.	Blairmore	171	24- 7-24
Hodson, Thomas H.	Nordegg	1	16- 7-45
*Holden, James O. E.	Drumheller	46	23- 8-15
Hollies, R. T.	Edmonton	153	9- 3-21
Horne, Thomas	Castor	82	1- 9-15
Howells, N.	Lethbridge	160	3-11-21
Hughes, Edward	Calumet, U.S.A.	174	25- 9-24
*Hunter, Alexander B.	Wabamun	156	1- 8-21
*Huntrods, E. S. F.	Taber	34	20- 8-15
Hutchison, David	Hillcrest	29	20- 8-15
Hutchison, William	Hillcrest	68	1- 9-15
Hyde, Marcus L.	Evansburg	95	7- 9-15
*Johnson, Moses F.	Lethbridge	130	7- 7-17
Jones, David	Edmonton	32	20- 8-15
Jones, John R. B.	Hinton	5	1- 8-36
*Jones, Samuel A.	Edson	26	19- 8-15
*Kellett, Walton	Lethbridge	47	23- 8-15
*Kellock, George	Coleman	105	23-11-15
Kelly, O. G.	Carbondale	2	29- 7-33
Kidd, G. L. S.	Calgary	132	10-10-17
*Knight, R. R.	Edmonton	96	9- 9-15
Knight, Sidney	Edmonton	122	3-12-15
Lavoie, G. A.	Frank	44	23- 9-15
*Leblanc, Emile	Taber	107	23-11-15
*Lee, Robert J.	Elcan, Sask.	64	1- 9-15
Lewis, John W.	Edmonton	159	10-10-21
Lindoe, Luke	Bellevue	136	3- 7-18
*Livingstone, Robert	Lethbridge	9	7- 8-15

LIST OF NAMES OF HOLDERS OF MINE SURVEYORS' CERTIFICATES—Continued

Name	Address	Cert. No.	Date of Issue
Livingstone, Robert D.	Lethbridge	11	25- 7-39
Lyster, H. M.	Bankhead	77	1- 9-15
*Marsh, John	Taber	124	4- 4-16
Marshall, J. W.	Evansburg	106	23-11-15
Maxwell, W.	Westville, N.S.	93	7- 9-15
Meldrum, William	Lethbridge	98	9- 9-15
Melnyk, N.	Cadomin	182	10- 9-30
Millar, A. A.	Lovettville	97	9- 9-15
Millen, John	Nordegg	172	24- 7-24
*Mills, Harry W.	Bankhead	92	7- 9-15
Milne, M. C.	Edmonton	78	1- 9-15
Moodie, K. S.	Drumheller	101	9- 9-15
Moore, H. D.	Nordegg	149	26- 7-20
Morgan, Evan H.	Blairmore	3	14- 7-43
Morgan, Owen	Saunders (duplicate)	5	4- 5-45
Morgan, T. E.	Hillcrest	183	29-10-30
*Morris, J. J.	Canmore	14	7- 8-15
Morris, R. H.	Pocahontas	17	7- 8-15
Morris, William	Edmonton	12	1- 8-39
Macaulay, A. G.	Coleman	41	23- 8-15
*Macaulay, D. A.	Drumheller	60	31- 8-15
MacDonald, Donald A.	Taber	6	19- 7-50
McConnell, Edward W.	Edmonton	4	16- 7-49
McCulloch, James	Drumheller	104	23-11-15
McDonald, Duncan	Hardieville	118	23-11-15
*McDonald, John R.	Frank	128	22- 2-17
McIntyre, John F.	Coleman	15	16- 7-51
McKinnon, Donald F.	Cadomin	7	18- 7-47
McLenhan, J. A.	Edmonton	37	21- 8-15
*McLeod, John A.	Edmonton	35	20- 8-15
McMullen, Arthur	Nordegg	1	26- 7-31
McNeill, W. F.	Calgary	6	7- 8-15
*McVicar, Samuel	Beaver Mines	120	23-11-15
Neumann, Theodore O.	Cadomin	15	13- 7-48
*O'Donnell, Thomas	St. Albert	102	9- 9-15
Panchuk, Fred	Cadomin	10	13- 7-48
Panchysyn, Edward J.	Blairmore	12	13- 7-48
*Parker, John L.	Canmore	11	7- 8-15
Pascoe, Thomas	Calgary	178	1- 8-27
Piard, Marc	Bellevue	88	7- 9-15
Pickles, William	Edmonton	24	18- 8-15
Pitcher, Norman C.	Edmonton	10	7- 8-15
Platt, John	Calgary	2	16- 7-49
Ponton, G. M.	Calgary	63	1- 9-15
Powell, A. E.	Wabamun	108	23-11-15
Pratt, John C.	Coleman	4	22- 7-35
*Puckett, O. L.	Lovett	31	20- 8-15
Pullen, Peter F.	Alexo	14	13- 7-48
Quigley, Daniel H.	Coalhurst	142	2- 7-19
Raisbeck, Luke	Grassy Lake	103	23-11-15
Reid, A. H.	Commerce	62	1- 9-15
Reid, J. C.	Lethbridge	12	7- 8-15
Rhynas, Melville G.	Pincher Creek	9	1-11-37
*Richards, C. C.	Commerce	43	23- 8-15
*Richards, J. A.	Calgary	13	7- 8-15
Richards, M. C. Russell	Edmonton	166	15- 9-23
Riddell, J. G.	Coleman	147	26- 7-21
Ritchie, D. W.	Edmonton	134	28- 6-18
Riva, Walter J.	Canmore	13	13- 7-48
Robert, L. P.	Blairmore	65	1- 9-15
Robertson, J.	Drumheller	61	1- 9-15
*Robertson, J. D.	Edmonton	23	7- 8-15
Robinson, W. E.	Coleman	139	11- 7-18
Scott, Andrew	Luscar	2	16- 7-45
Scott, A. N.	Pocahontas	36	20- 8-15
Shanks, David	Calgary	161	3- 4-22
*Shanks, John	Calgary	58	28- 8-15
Shaw, Norman	Edmonton	170	16- 7-24
Shaw, Robert	Stettler	13	16- 7-51
*Shaw, William	Blairmore	25	19- 8-15
Sherwin, P. M.	Frank	127	22- 1-17
*Smith, Frank B.	Edmonton	3	7- 8-15
Smith, Terence	East Coulee	1	16- 7-49
Smith, T. E.	Coalhurst	137	3- 7-18
Sparks, H. E.	Brule	155	1- 8-21
Squire, Ronald E.	Luscar	12	16- 7-51
Steele, F. M.	Pincher Creek	146	23- 3-20
Stevens, Leonard C.	Edmonton	66	1- 9-15
Stevenson, J.	Hardieville	116	23-11-15
Stevenson, William Jr.	Nordegg	59	31- 8-15
*Stewart, R. T.	Ardley	173	11- 8-24
*Stirling, John T.	Edmonton	19	7- 8-15
*Stockett, Lewis	Calgary	2	7- 8-15
Sutherland, C. C.	Edmonton	86	3- 9-15

LIST OF NAMES OF HOLDERS OF MINE SURVEYORS' CERTIFICATES—Continued

Name	Address	Cert. No.	Date of Issue
*Thomas, Joseph D.	Passburg	115	23-11-15
Thorne, B. L.	Calgary	18	7- 8-15
*Thornton, Norman M.	Edmonton	16	7- 8-15
*Turner, John H.	Coalhurst	141	2- 7-19
Usher, Charles V.	Canmore	10	19- 7-50
Utley, Frederick W.	Bellevue	177	26- 7-26
*Wain, W. Holt	Canmore	4	7- 8-15
*Wark, Samuel D.	Evansburg	99	9- 9-15
Watson, R. H.	Mountain Park	53	23- 8-15
Watters, John	Bankhead	87	3- 9-15
Wheeler, James S.	Calgary	112	23-11-15
Whigham-Teasdale, James R.	Drumheller	7	18- 8-37
*Whiteside, O. E. S.	Coleman	27	19- 8-15
Whittaker, William C.	Coleman	179	6- 8-27
Wieckowski, Mieczslaw	Coleman	14	16- 7-51
Williams, A. E.	Bellevue	38	21- 8-15
Williams, T. B.	Canmore	48	23- 8-15
*Williams, W. P.	Bellevue	71	1- 9-15
Wilson, Andrew	Rosedale	1	19- 7-41
*Wilson, D. G.	Bankhead	5	7- 8-15
Wilson, William	Clover Bar	176	14- 8-25
Wilson, W. R.	Fernie, B.C.	90	7- 9-15
Wilton-Clark, Harry	Coleman	175	20- 7-25
Worthington, Willard T.	Edmonton	9	18- 7-47
Wright, Edwin	Bankhead	138	11- 7-18
Young, David B.	Bellevue	5	24- 9-46
*Young, W. H.	Calgary	28	19- 8-15

*Deceased.

LIST OF NAMES OF HOLDERS OF FIRST CLASS MINE ELECTRICIANS' CERTIFICATES

Name	Address	Cert. No.	Date of Issue
Anderson, Julius	Wayne	87	10- 9-40
Angelo, Steve	Drumheller	88	10- 9-40
Arndt, Joseph H.	Drumheller	61	30- 9-39
Bailey, Edwin T.	Carbondale	124	8-11-44
Barraud, Charles A.	Nordegg	120	12- 7-44
Barrell, William	Ardley	101	14-11-40
Basso, Joseph	Cadomin	123	8-11-44
Beaton, George M.	Luscar	116	15-10-42
Bell, Harold	Lethbridge	39	30- 9-39
Belley, Thomas	Mountain Park	76	24- 1-39
Berlando, Tully	Aerial	49	30- 9-39
Biamonte, Antonio	Clover Bar	1	25- 9-39
Blake, Gwilym	Blairmore	29	30- 9-39
Blas, Emile	Blairmore	28	30- 9-39
Brenton, David J.	Drumheller	12	19- 7-50
Broderick, Gideon	Canmore	14	30- 9-39
Brotherston, Robert A.	Clover Bar	2	25- 9-39
Brown, Hugh R.	Carbon	95	12- 9-40
Bucholtz, Robert C.	Redcliff	98	16- 9-40
Burch, George	Shaughnessy	107	29- 9-41
*Buzenus, Christopher	Drumheller	51	30- 9-39
Callan, Lawrence	Cadomin	78	21-11-39
Carledge, Harold L.	Edmonton	67	4-11-39
Chapman, James R.	Alexo	84	25- 5-40
Chriasty, John A.	Blairmore	7	19- 7-50
Clark, James	East Coulee	59	30- 9-39
Conlin, Lloyd R.	East Coulee	10	13- 7-48
Conlin, Richard	Drumheller	50	30- 9-39
Craig, Andrew	Nacmine	91	11- 9-40
Devonshire, George H.	Canmore	15	30- 9-39
Dibblee, Edwin W.	Coleman	26	30- 9-39
Dolanz, Iggie	Three Hills	82	5-12-39
Dolanz, Steve	Three Hills	81	5-12-39
Dore, Vincent F.	Coal Valley	70	20-11-39
Dutfield, George	Mercoal (duplicate)	14	26- 7-50
Edwards, Mark	Entwistle	100	14-11-40
Finlayson, John C.	Robb	102	15-11-40
Ford, John C.	Drumheller	53	39- 9-39
Fox, Alfred	Carbon	83	5-12-39
Fraser, James	Coleman	31	30- 9-39
Freypons, John	East Coulee	60	30- 9-39
Gidman, Joseph H.	Taber	40	30- 9-39
Gilchrist, J. N.	Wabamun	5	25- 9-39

LIST OF NAMES OF HOLDERS OF FIRST CLASS MINE ELECTRICIANS' CERTIFICATES—Continued

Name	Address	Cert. No.	Date of Issue
Gitzel, Edward S.	Luscar	7	18- 7-47
*Godfrey, Wiley R.	Coleman	18	30- 9-39
Grant, Alexander	Rosedale	47	30- 9-39
Gregor, Victor	Bellevue	17	30- 9-39
Grover, Henry	Calgary	16	30- 9-39
Gustason, Oxyl G.	Canmore	15	16- 7-51
Hallworth, Frederick W.	Bellevue	23	30- 9-39
*Hansen, Knud	Midlandvale	55	30- 9-39
Harvey, Edward N.	Rosedale	16	16- 7-51
Heidel, H. S.	Priddis	117	12-11-43
Henderson, John R.	Nacmine (duplicate)	4	6-12-46
Henderson, Patrick H.	Lethbridge	97	16- 9-40
Herman, Martin	Drumheller	48	30- 9-39
Higgins, William	Drumheller	52	30- 9-39
Hilman, Arnold R.	Nordegg	9	13- 7-48
Hodgkinson, John L.	Evansburg	112	21-11-41
Hoole, William	East Coulee	86	16- 9-40
Horne, Robert	Drinnan	4	27- 9-29
Hudz, Michael	Coleman	13	19- 7-50
Hunter, James	Edmonton	8	27- 9-39
Iwasiuk, Harry	Wabamun	7	27- 9-39
Johnson, Albert E.	Edmonton (duplicate)	126	3- 3-47
Johnson, John C.	Lethbridge	1	16- 7-49
King, Samuel D.	Iron Springs	41	30- 9-39
*King, William G.	Lethbridge	37	30- 9-39
Lain, John T.	Foothills	69	24-11-39
Lambert, Louis J.	Edmonton	3	25- 9-39
Lamond, David	Edmonton	121	12- 7-44
Laslop, Ignac	Midlandvale	92	11- 9-40
Lattin, Albert	Drumheller	89	10- 9-40
Lavis, Stewart	Drumheller	119	12-11-43
Lawrence, Charles G.	Hillcrest	19	30- 9-39
Lister, Alexander B.	Edmonton	9	27- 9-39
Lupul, Eugene	Saunders	122	12- 7-44
Manning, Thomas	Drumheller	93	11- 9-40
Marsh, Cyril	Drumheller	57	30- 9-39
Mathison, Matthew	Robb	72	24-11-39
Mellett, Percy M.	Sterco	71	24-11-39
Mileson, Thomas H.	Lethbridge	34	30- 9-39
Miller, William J.	Cadomin	79	24-11-39
Millett, Fernley E.	Blairmore	22	30- 9-39
Milner, Robert	Lethbridge	44	30- 9-39
Milo, Michael	East Coulee	65	30- 9-39
Mitchell, Robert	Coleman	20	30- 9-39
Montalbetti, Ernest	Coleman	2	16- 7-49
Montalbetti, Ralf A.	Coleman	32	30- 9-39
Mozell, William J.	Coleman	2	3- 8-46
Muhlberg, Karl A.	Mountain Park	125	8-11-44
Munro, James H.	Lethbridge	45	30- 9-39
Murdoch, Horace	Rosedale	56	30- 9-39
Murdoch, Stewart	Coleman (duplicate)	3	25-10-46
Musgrove, Fred	Canmore	105	23- 9-41
MacDonald, Edwin M.	Bellevue	24	30- 9-39
McGregor, Hector	Lethbridge	36	30- 9-39
McKay, Fred	Blairmore	25	30- 9-39
McLeod, Fraser	Mercoal	74	24-11-39
McMahon, James	Lethbridge	38	30- 9-39
*McQuillan, D. J.	Saunders	113	15-10-42
Nelson, Cais E.	Lethbridge	42	30- 9-39
Nelson, Leonard G.	Lethbridge	96	16- 9-40
O'Dwyer, John J.	Midlandvale	89	10- 9-40
Oliphant, Cyril	Carbon	80	21-12-39
Oliver, Kenneth	Taber	109	29- 9-41
Peebles, James W.	Shaughnessy	10	19- 7-50
Phillips, Robert	Edmonton	111	21-11-41
Porter, Glen	Luscar	77	24-11-39
Quintilio, Daniel	Bellevue	5	18- 7-47
Raffin, Peter D.	Nordegg	11	19- 7-50
Raisbeck, Luke	East Coulee	64	30- 9-39
Ransom, Albert S.	Nacmine	118	12-11-43
Reishus, Odin K.	East Coulee	63	30- 9-39
Rice, Robert G.	Cadomin	6	18- 7-47
Riordan, Leo	Edmonton	104	1- 5-41
Ritchie, Charles O.	Bellevue	1	18- 7-46
Roome, Ronald	Mountain Park	3	16- 7-49
Root, Clarence	Robb	73	24-11-39
Sbora, John	Drumheller	54	30-10-39
Shanks, David S.	Nordegg	13	11-10-39
Sikora, Joseph J.	Coleman	5	16- 7-49
Siray, Louis	Shaughnessy	6	16- 7-49
Skow, Arthur M.	Drumheller	62	30-10-39
Smith, Eric W.	Nordegg	12	11-10-39
Speight, James A.	Midlandvale	58	30-10-39
Stacey, Alfred R.	Hinton	68	30-10-39

LIST OF NAMES OF HOLDERS OF FIRST CLASS MINE ELECTRICIANS' CERTIFICATES—Continued

Name	Address	Cert. No.	Date of Issue
*Stewart, R. T.	Edmonton	99	14-11-40
Tait, Burton	Edmonton	110	21-11-41
Thackray, John	Shaughnessy	108	29- 9-41
Trysinsky, Stanley	Hinton	103	23-12-40
Vasek, Steven	Coleman	33	30-10-39
Warn, Roland	Bellevue	30	30-10-39
Waters, William J.	Saunders	10	11-10-39
Watson, James S.	Mountain Park	75	24-11-39
Webster, James S.	Shaughnessy	35	30-10-39
Weins, William J.	Drumheller	115	15-10-42
Welsh, David	Hillcrest	8	19- 7-50
Weston, Clarence E.	Rosedale	66	30-10-39
Wilson, Glen H.	Edmonton	6	27- 9-39
Wilson, John	Nordegg	11	11-10-39
Wilson, Mike	Willow Creek	94	12- 9-40
Wollersheim, Philip	Drumheller	106	25- 9-41
Worobec, William N.	Bellevue	114	15-10-42
Wyatt, Douglas	Diamond City	43	30-10-39
Wyllie, Gordon F.	Shaughnessy	9	19- 7-50
Wyrostok, Emil	Shaughnessy	8	13- 7-48
Zukewich, William	Mercoal	4	16- 7-49

*Deceased

LIST OF NAMES OF HOLDERS OF SECOND CLASS MINE ELECTRICIANS' CERTIFICATES

Name	Address	Cert. No.	Date of Issue
Anderson, Raymond E.	Shaughnessy	14	13- 7-48
Auger, Norman L.	Nacmine	1	16- 7-49
Collins, Charles E.	Drumheller	12	16- 7-51
Conlin, Lloyd R.	Drumheller	6	18- 7-47
Daintith, Joseph	Camrose	11	16- 7-51
Farmer, John T.	Edmonton	3	30- 7-46
Fox, Benjamin	Carbon	9	16- 7-51
Galloway, Robert C.	Nordegg	4	19- 7-46
Gitzel, Edward	Luscar	1	18- 7-46
Gustason, Oxyl G.	Canmore	4	19- 7-50
Harvey, Edward N.	Rosedale	6	19- 7-50
Higgins, Frank	Drumheller	16	13- 7-48
Hill, Lewis E.	Lethbridge	17	13- 7-48
Holman, Jonathan P.	Robb	2	16- 7-49
Hvizdos, Stefan	Bellevue	5	19- 7-50
Jackson, John	Edmonton	3	16- 7-49
Johnson, John C.	Lethbridge	7	18- 7-47
Kosinsky, Victor	Nordegg	5	18- 7-47
Miller, Leonard E. A.	Drumheller	10	16- 7-51
MacLauchlan, Douglas J.	Calwin P.O.	7	19- 7-50
O'Dwyer, Harold A.	Wayne	13	16- 7-51
Peebles, James W.	Lethbridge	12	13- 7-48
Sikora, Joseph J.	Coleman	15	13- 7-48
Siray, Louis	Shaughnessy	11	13- 7-48
Smith, Charles A.	Midlandvale	10	12- 2-48
Webster, William H.	Rosedale	8	19- 7-50
Wyllie, Gordon F.	Shaughnessy	13	13- 7-48
Wyrostok, Emil	Shaughnessy	8	18- 7-47

Certificates issued previous to September 1, 1905, were issued under the provisions of The Coal-mines Regulation Ordinance of the North-West Territories.

LIST OF HOLDERS OF STRIP MINE MANAGERS', FOREMENS' AND BLASTERS' CERTIFICATES

Issued by the Government of the Province of Alberta to December 31st, 1951

LIST OF NAMES OF HOLDERS OF STRIP MINE MANAGERS' CERTIFICATES

Name	Address	Cert. No.	Date of Issue
Aschacker, Martin	Blairmore	32	18-10-48
Barclay, William	Nacmine	41	11- 5-50
Bish, Homer F.	Forestburg	58	3- 7-51
Blackstock, William J.	Calgary	63	13-12-48
Blake, Henry	Blairmore	56	13-12-48

LIST OF NAMES OF HOLDERS OF STRIP MINE MANAGERS' CERTIFICATES—Continued

Name	Address	Cert. No.	Date of Issue
Bradley, Norman A.	Edmonton	21	18-10-48
Brown, John D. B.	Blairmore	26	19- 8-49
Brown, William B.	Castor	37	18-10-48
Burton, John T.	East Coulee	1	7- 5-49
Campbell, Thomas	Drumheller	42	11- 5-50
Campbell, Victor W.	Grassy Lake	27	19- 8-49
Chavignaud, Louis G.	Mercoal	38	18-10-48
Collett, Karl W.	Calgary	57	13-12-48
Congdon, Milton H.	Bellevue	68	13-12-48
Cook, Carlton C.	Taber	2	7- 5-49
Cote, Paul H.	Edmonton	3	7- 5-49
Cowie, James L.	Blairmore	28	19- 8-49
Crabb, Daniel J.	Lethbridge	43	11- 5-50
Cragg, William M.	Eyremore	30	18-10-48
Crawford, Alexander	Edmonton	4	7- 5-49
Crawford, Hugh	East Coulee	73	13-12-48
Crawford, John	Edmonton	3	18-10-48
Dalziel, Robert	Edmonton	65	13-12-48
D'Amico, Zupito	Nordegg	29	19- 8-49
Davidson, John M.	Lethbridge	58	13-12-48
Dick, William J.	Edmonton	40	19- 8-49
Dinsdale, William	Nacmine	52	6- 9-50
Donkin, Frederick I.	Michel, B.C.	5	7- 5-49
Douglas, Peter S. Jr.	Cadomin	16	18-10-48
Dutton, Joseph A.	Edmonton	4	18-10-48
Evans, Howell	Luscar	52	13-12-48
Farmer, Eric E. J.	Edmonton	50	15- 7-50
Foster, William	Wabamun	47	18-10-48
Fraser, Arthur A.	Coal Valley	24	18-10-48
Fraser, William B.	Coleman	20	18-10-48
Gallinger, Wilber	Tofield	49	18-10-48
Garriott, Harry M.	Eyremore	6	7- 5-49
Goodwin, William	Bellevue	14	18-10-48
Hall, William E. G.	Calgary	5	18-10-48
Halldorson, Arni S.	Hillcrest	57	3- 7-51
Hamilton, Allan	Drumheller	30	19- 8-49
Hamilton, Duncan C.	Luscar	50	18-10-48
Harrington, Michael A.	Cadomin	7	7- 5-49
Harvie, John	Edmonton (Honourary)	2	18-10-48
Heeley, William G.	Calgary	6	18-10-48
Henderson, Austin J.	Cadomin	31	19- 8-49
Henderson, David C.	Castor	8	7- 5-49
Hibbert, William	Aerial	78	13-12-48
Hill, Albert B.	Blairmore	61	13-12-48
Hnatyshyn, Andrew C.	Drumheller	70	13-12-48
Hooks, Albert	Calgary	75	13-12-48
Hooyberg, Adrian	Blairmore	53	6- 9-50
Horne, Frederick L.	Luscar	77	13-12-48
Horne, James	Drumheller	8	18-10-48
Howells, Nathaniel	Cambria	44	11- 5-50
Irving, Donald F.	Dodds	27	18-10-48
Jones, Daniel	Robb	74	13-12-48
Kapach, Micheal S.	Luscar	24	7- 5-49
Keith, Homer P.	Edmonton	69	13-12-48
*Kellock, James	Carbondale	71	13-12-48
Kubin, John J.	Bellevue	54	28- 2-51
Lister, Arthur L.	Blairmore	10	18-10-48
Livingstone, Robert D.	Lethbridge	9	7- 5-49
Logan, Thomas J.	Morinville	44	18-10-48
Mainland, William B.	Dodds	51	15- 7-50
Mannix, Frederick C.	Calgary	54	13-12-48
Marshall, Thomas	Cluny	32	19- 8-49
Matson, Clarence M.	Nordegg	42	18-10-48
Melnyk, Nick	Cadomin	67	13-12-48
Melson, Philip	East Coulee	10	7- 5-49
Miller, David	Bellevue	25	7- 5-49
Miller, Henry	Bellevue	15	18-10-48
Mingle, Wesley R.	Calgary	11	7- 5-49
Montgomery, Brockwell L.	Calgary	33	19- 8-49
Morgan, Evan H.	Lethbridge	56	5- 3-51
Morgan, Owen	Saunders	45	11- 5-50
Morgan, Thomas E.	Blairmore	34	18-10-48
Morris, William	Foothills	55	1- 3-51
Mrokwia, Victor Jr.	Canmore	12	7- 5-49
Muir, Alexander	Edson	7	18-10-48
Munn, Robert B.	Camrose	19	18-10-48
Macaulay, Angus G.	Drumheller	34	19- 8-49
MacKinnon, Donald F.	Mountain Park	46	18-10-48
MacKinnon, Hugh G.	East Coulee	48	11- 5-50
McAndrew, John	Calgary	46	11- 5-50
McArthur, Archibald A.	Carbon	28	18-10-48
McDonald, Duncan	Gregg River	13	7- 5-49
McDonald, Leslie M.	Mountain Park	25	18-10-48
McDonald, Malcolm M.	Taber	14	7- 5-49

LIST OF NAMES OF HOLDERS OF STRIP MINE MANAGERS' CERTIFICATES—Continued

Name	Address	Cert. No.	Date of Issue
McIntyre, John J.	Coleman	60	13-12-48
*McLeod, John A.	Vancouver, B.C.	15	7- 5-49
McMullen, Arthur	Nordegg	35	19- 8-49
Neufeld, J. P.	Grassy Lake	23	18-10-48
Neumann, Theodore O.	Calgary	35	18-10-48
Norton, Robert E.	Mountain Park	16	7- 5-49
Odlum, Nelson E.	Nordegg	51	18-10-48
Paepe, Henry	Morinville	43	18-10-48
Panchysyn, Edward J.	Blairmore	41	18-10-48
Platt, John	Calgary	59	17-12-51
Potter, Idwal N.	Nacmine	47	11- 5-50
Ramsay, Peter M.	Calgary	66	13-12-48
Rappel, Thomas	Rosedale	31	18-10-48
Rhynas, Melville G.	Taber	13	18-10-48
Richards, M. C. R.	Rosedale	36	18-10-48
Sandino, Joseph A.	Drumheller	17	7- 5-49
Schymizek, John	Big Valley	49	15- 8-50
Scott, Andrew N.	Edmonton	59	13-12-48
Scott, Andrew Jr.	Luscar	55	13-12-48
Scott, Norman E.	Tofield	18	18-10-48
Shaw, Robert	Drumheller	11	18-10-48
Slominsky, William A.	Calgary	36	19- 8-49
Smart, Robert K.	Nanaimo, B.C.	18	7- 5-49
Smith, Terence	East Coulee	19	7- 5-49
Stein, Richard C.	Blairmore	76	13-12-48
Stevens, Leonard C.	Edmonton	40	18-10-48
Stevenson, William F.	Edmonton	39	18-10-48
Tanner, Hon. N. E.	Edmonton (Honourary)	1	18-10-48
Thomson, John	Edmonton	9	18-10-48
Tonge, Reginald G.	Blairmore	20	7- 5-49
Twomey, Dennis	Camrose	48	18-10-48
Vennard, Raymond R.	Cadomin	64	13-12-48
Vissac, Gustave A.	Vancouver, B.C.	17	18-10-48
Vivyurka, John	Wabamun	22	18-10-48
Walker, Raymond G.	Sterco	29	18-10-48
Wanner, George	Eyremore	21	7- 5-49
Welch, Cyril J.	Blairmore	62	13-12-48
Westergaard, Melvin G.	Coleman	53	13-12-48
Westgate, John G.	Eyremore	45	18-10-48
Whittaker, William C.	Calgary	72	13-12-48
Wiggan, George A.	Eyremore	33	18-10-48
Williams, Arthur E.	Bellevue	12	18-10-48
Wilson, Andrew	Coleman	22	7- 5-49
Wilton-Clark, Harry	Fernie, B.C.	37	19- 8-49
Wood, Richard L.	Sheerness	26	18-10-48
Worthington, Willard T.	Edmonton	23	7- 5-49
Worthington, Willard T. Jr.	Edmonton	38	19- 8-49
Young, David B.	Cadomin	39	19- 8-49

*Deceased

LIST OF NAMES OF HOLDERS OF FOREMEN'S CERTIFICATES

Name	Address	Cert. No.	Date of Issue
Allen, William A.	Sterco	66	13-12-48
Ambrosi, Antonio	Blairmore	9	18-10-48
Anderson, Orson L.	Eyremore	14	18-10-48
Appleby, William S.	Rosedale	24	19- 8-49
Bain, Alexander	Coleman	1	7- 5-49
Baratelli, John	Blairmore	11	18-10-48
Bartsch, Theodore G.	Robb	70	3- 7-51
Beardsley, Arthur J.	Picardville	37	18-10-48
Belcourt, Ernest	Tofield	2	7- 5-49
Binder, Christopher	Ryley	92	22-11-51
Bish, Homer F.	Forestburg	44	15- 7-50
Bish, Walter H.	Forestburg	56	15- 7-50
Bishop, Bert H.	Sheerness	3	7- 5-49
Bohle, Otto H.	Hillcrest	25	19- 8-49
Bordula, Andrew J.	Hanna	38	18-10-48
Bordula, Edward A.	Hanna	89	22-11-51
Bryant, Ernest A.	Wabamun	41	19- 8-49
Burnstad, Sigurd	Ohaton	64	13-12-48
Campbell, Albert A.	Round Hill	68	3- 7-51
Campkin, Bruce C.	Lousana	80	3- 7-51
Cardle, Terrence P.	Bellevue	65	3- 7-51
Carson, James	Forestburg	4	7- 5-49
Carter, Leo R.	Alix	5	7- 5-49
Chambers, Harold S.	Delia	43	18-10-48

LIST OF NAMES OF HOLDERS OF STRIP MINE FOREMEN'S CERTIFICATES—Continued

Name	Address	Cert. No.	Date of Issue
Chiswick, James	Gadsby	1	18-10-48
Christiaens, Cyrille	Cardiff	6	7- 5-49
Clark, Wayne R.	Keep Hills	69	3- 7-51
Clyburn, Norman S.	Luscar	41	18-10-48
Coleman, Ben	Calgary	26	19- 8-49
Coleman, Donald D.	Coleman	27	19- 8-49
Coljee, Henry	Edmonton	74	3- 7-51
Corkish, Edward	Eyremore	13	18-10-48
Cornelssen, Kenneth K.	Nevis	71	3- 7-51
Daintith, Joseph	Camrose	69	13-12-48
Davidson, Darrell W.	Three Hills	12	18-10-48
Dombroski, Titus	Thorhild	4	18-10-48
Doupe, William E.	Wembley	63	13-12-48
Dropo, William A.	Calgary	51	13-12-48
Dunlop, Thomas S.	Coleman	47	15- 7-50
Ells, Douglas R.	Edmonton	28	19- 8-49
Farrell, Clarence	Luscar	81	3- 7-51
Fellows, Frank	Edmonton	15	18-10-48
Fergstad, Charles A.	Round Hill	77	3- 7-51
Fergstad, Charles A. Jr.	Round Hill	72	3- 7-51
Flanders, Arthur L.	Eyremore	7	7- 5-49
Fletcher, Earl	Castor	8	7- 5-49
Fodor, Frank	Warburg	94	22-11-51
Fortin, Michael	Coal Valley	67	13-12-48
Foss, George	Dodds	88	22-11-51
Francey, John A.	Duffield	17	18-10-48
Gabert, Jake	Halkirk	50	15- 8-50
Gaetz, Christopher	Hanna	39	18-10-48
Gaetz, John	Hanna	31	18-10-48
Galvin, Raymond E.	Grassy Lake	73	3- 7-51
Garriott, Clarence F.	High River	9	7- 5-49
Gordon, David L.	Warden	22	18-10-48
Gryschuk, Lenin N.	Hillcrest	75	3- 7-51
Harper, James	Bellevue	29	19- 8-49
Harrigan, Michael A.	Cadomin	56	13-12-48
Harrison, Edward B.	Luscar	59	3- 7-51
Heaston, Franklin J.	Sheerness	40	20- 9-49
Henderson, Austin J.	Gregg River	44	18-10-48
Herman, John R.	Cadomin	30	19- 8-49
Herrick, Wallace E.	Eyremore	3	18-10-48
Higdon, Augustus A.	Nacmine	10	7- 5-49
Houle, Adelard	Morinville	55	15- 7-50
Hughes, William A.	Luscar	68	13-12-48
Ironside, Telfer G.	Scapa	33	18-10-48
Jamieson, William M.	Halkirk	18	18-10-48
Johnson, Reuben	Coleman	19	18-10-48
Jones, Charles W.	Ardley	78	3- 7-51
Jones, William A.	Donalda	93	22-11-51
Kapach, Micheal S.	Luscar	10	18-10-48
Kinjerski, Frank	Dodds	2	18-10-48
Klapstein, Reuben	Edmonton	26	18-10-48
Konschuk, Victor	Gainford	35	18-10-48
Kubin, John J.	Luscar	72	21-12-48
Kukuchka, Peter	Coal Valley	60	13-12-48
Kwasney, Stanley	Mountain Park	70	13-12-48
Lang, John	Halkirk	49	15- 7-50
Larson, Roy E.	Luscar	62	2- 7-51
Leonhardt, Victor	Drumheller	53	15- 7-50
Letcher, George L.	Mountain Park	42	18-10-48
Livingstone, Alan S.	Nacmine	34	18-10-48
Logan, Arthur	Morinville	6	18-10-48
Logan, Thomas C.	Calgary	11	7- 5-49
Long, Charles	Blairmore	48	13-12-48
Long, James L.	Sterco	50	13-12-48
Lynass, John H.	Delburne	23	18-10-48
Mainland, William B.	Dodds	29	18-10-48
Marshall, Robert S.	Luscar	61	3- 7-51
Martin, Gabriel	St. Francis	63	3- 7-51
Martin, William G.	Delburne	31	19- 8-49
Mather, John	Edmonton	87	22-11-51
Melesko, John	Thorhild	96	22-11-51
Meers, Kenneth G.	Eyremore	12	7- 5-49
Melidones, Platos	Nordegg	54	13-12-48
Michalsky, Joseph J.	Blairmore	8	18-10-48
Milne, George M.	Stettler	51	15- 7-50
Milne, John A.	Stettler	83	3- 7-51
Mortenson, Niels	Tofield	13	7- 5-49
Mucha, John G.	Edmonton	5	18-10-48
Munro, Stanley S.	Ardley (duplicate)	57	25-10-50
Muspratt, Gordon T.	Coleman	84	22-11-51
MacLachlan, Charles F.	Edmonton	14	7- 5-49
McDevitt, James J.	Edmonton	32	19- 8-49
McDonald, Duncan	Gregg River	55	13-12-48
McKenzie, Melbourne W.	Blairmore	53	13-12-48

LIST OF NAMES OF HOLDERS OF STRIP MINE FOREMEN'S CERTIFICATES—Continued

Name	Address	Cert. No.	Date of Issue
McLeod, Thomas R.	Edmonton	91	22-11-51
Neilson, Morten H.	Halkirk	46	15- 7-50
Nelson, Edgar S.	Eyremore	16	18-10-48
Newall, Edward	Seba Beach	40	18-10-48
Nottal, Florin	Three Hills	32	18-10-48
O'Hanlon, Arthur J.	Edmonton	15	7- 5-49
Olson, Melvin H.	Ardrossan	28	18-10-48
Ostertag, Charles	Entwistle	66	3- 7-51
Ostertag, Gordon	Entwistle	7	18-10-48
Ovelson, Kenneth V.	Kingman	52	15- 7-50
Ozubko, Steve	Michel, B.C.	33	19- 8-49
Ozubko, William	Cadomin	61	13-12-48
Pahl, Fred M.	Hanna	36	18-10-48
Pahl, Otto F.	Hanna	62	13-12-48
Pastorchik, Walter	Three Hills	24	18-10-48
Patterson, John B.	Natal, B.C.	34	19- 8-49
Petersen, Ramus	Nordegg	57	13-12-48
Pinter, Joseph	Warburg	30	18-10-48
Plesuk, William	Beverly	85	22-11-51
Pooke, Nick	Ryley	48	15- 7-50
Pozzi, Dante	Bellevue	47	18-11-48
Pratt, Howard S.	Dodds	86	22-11-51
Quinn, Patrick	Calgary	16	7- 5-49
Rayner, Arthur F.	Calgary	54	15- 7-50
Reilly, Aloysius	Nordegg	65	13-12-48
Roscovich, Frank	Sterco	35	19- 8-49
Rushton, Stanley S.	Drumheller	95	22-11-51
Russell, Charles M.	Alix	20	18-10-48
Schnepf, Karl J.	Delburne	36	19- 8-49
Schymizek, John	Big Valley	37	19- 8-49
Shearer, John C.	Hillcrest	58	3- 7-51
Shulha, John P.	Blairmore	49	13-12-48
Siega, Levy J.	Bellevue	45	15- 7-50
Sissons, Robert C.	Alix	27	18-10-48
Skarin, Emil R. T.	Edmonton	90	22-11-51
Slunisky, George	Luscar	71	13-12-48
Sorken, Alfred N.	Killam	46	18-10-48
Steffen, William	Ryley	82	3- 7-51
Stene, Alexander	Mountain Park	42	15- 7-50
St. Martin, John B.	Legal	21	18-10-48
Stock, David	Cadomin	59	13-12-48
Stratton, Robert	Robb	17	7- 5-49
Straub, Robert R.	Alix	60	3- 7-51
Sward, Henry	Sheerness	18	7- 5-49
Thomas, William J.	Luscar	73	21-12-48
Tocher, Victor G.	Gregg River	58	13-12-48
Troudt, Jacob	Coal Valley	67	3- 7-51
Vejprava, Frank P.	Frank	38	19- 8-49
Voice, Roy	Edmonton	39	19- 8-49
Voykin, Peter	Blairmore	79	3- 7-51
Vranas, George	Morinville	19	7- 5-49
Walker, Harold E.	Sheerness	20	7- 5-49
Walper, William H.	Alix	76	3- 7-51
Wanner, George	Wabamun	21	7- 5-49
Watson, Alex	Blue Ridge	64	3- 7-51
Whittaker, Ora W.	Beynon	22	7- 5-49
Wilson, Rufus B.	Tofield	25	18-10-48
Wirove, Joseph	Eyremore	23	7- 5-49
Wright, Alan	Blairmore	52	13-12-48
Wright, Albert	Mountain Park	43	14- 7-50

LIST OF NAMES OF HOLDERS OF BLASTERS' CERTIFICATES

Name	Address	Cert. No.	Issue Date of
Anderson, Olaf	Camrose	1	7- 5-49
Babala, William	Luscar	27	21-12-48
Baluch, Steve	Mountain Park	2	7- 5-49
Bokenfohr, Herman	Cardiff	3	7- 5-49
Bozich, John	Blairmore	1	18-10-48
Christensen, Jens	Mountain Park	6	18-10-48
Comfort, Charles S.	Blairmore	12	18-10-48
Craig, Thomas	Hillcrest	8	19- 8-49
Cunningham, Edward D.	Sterco	22	13-12-48
Curd, William F.	Sundance	3	18-10-48
Farrell, Clarence	Luscar	24	21-12-48
Gailey, Clifford H.	Eyremore	4	18-10-48

LIST OF NAMES OF HOLDERS OF STRIP MINE BLASTERS' CERTIFICATES—Continued

Name	Address	Cert. No.	Date of Issue
Hanson, Hans M.	Eyremore	9	18-10-48
Henderson, William	Nordegg	19	13-12-48
Jackson, Harold W.	Forestburg	17	22-11-51
Johnson, Anton	Tofield	10	18-10-48
Karomarkovich, Marko	Cadomin	23	13-12-48
Korol, Steve	Coleman	20	13-12-48
Krkosky, Martin	Blairmore	7	7- 5-49
Kropinak, Frank	Blairmore	2	18-10-48
Lane, Ernest L.	Eyremore	15	3- 7-51
Lovenuik, Nick	Coal Valley	15	13-12-48
Millar, William G.	Coleman	14	13-12-48
Miller, Alexander D.	Eyremore	7	18-10-48
Mitchell, John C.	Luscar	12	3- 7-51
Mordeen, Axel	Luscar	25	21-12-48
Mottl, Orly	Blairmore	4	7- 5-49
McLellan, Lloyd W.	Bellevue	21	13-12-48
Nixon, George R.	Eyremore	14	3- 7-51
Ohline, Axel	Cadomin	13	13-12-48
Pilichowski, George	Luscar	26	21-12-48
Pooke, Nick	Kylex	11	18-10-48
Poulsen, Paul	Luscar	16	3- 7-51
Rizzi, Peter S.	Wabamun	5	7- 5-49
Savignac, Joseph	Sterco	17	13-12-48
Schafers, Emil	Morinville	6	7- 5-49
Schenkenfelter, Mike	Wabamun	5	18-10-48
Schymizek, Frank	Fallis	9	19- 8-49
Strazza, Peter L.	Mountain Park	11	15- 7-50
Swaren, Clarence R.	Camrose	13	3- 7-51
Thorndson, Morris N.	Camrose	16	13-12-48
Vaughn, John B.	Creston, B.C.	10	19- 8-49
Wilson, Fred	Eyremore	8	18-10-48
Zupan, Anthony	Cadomin	18	13-12-48

GOVERNMENT OF THE PROVINCE OF ALBERTA

MINES DIVISION

EXAMINATIONS UNDER THE COAL MINES REGULATION ACT

June 5, 6 and 7, 1951

FIRST CLASS CERTIFICATES

Marks obtainable 200 — Marks required 120
Paper No. 1. — Time—3½ hours.

THE COAL MINES REGULATION ACT

Values

1. State the additional powers of an Inspector under Section 6 24
2. What does Section 15 state in connection with maximum hours of employment and working shifts below ground? 26
3. What does Section 57 state regarding the responsibility, control and direction of a mine by the manager? 20
4. What are the requirements of Section 73 in connection with permits for, and the demonstration of certain explosives and machinery in a mine 20
5. What does Section 96 state regarding the procedure on the abandonment of a mine? 22
6. Under Section 103, what are the powers of the Director of Mines in cases of wasteful operation? 20
7. What does Section 133 state regarding fire protection and other precautions? 20
8. What are the requirements of Section 134 in connection with the location and construction of underground stables? 18
9. What are the requirements of Regulation 16 of the Regulations in connection with the approach of the workings of the mine in close proximity to bore-holes drilled for gas or oil? 12
10. Under Regulation 1(b) of the Electrical Regulations, what notices are required to be sent to the District Inspector and Electrical Inspector? 18

GOVERNMENT OF THE PROVINCE OF ALBERTA

MINES DIVISION

EXAMINATIONS UNDER THE COAL MINES REGULATION ACT

June 5, 6 and 7, 1951

FIRST CLASS CERTIFICATES

Marks obtainable 200 — Marks required 120
Paper No. 2. — Time—3½ hours.

GASES, SHOT-FIRING AND SAFETY LAMPS

Values

1. What are outbursts of gas and how are they caused? What are the dangers

resulting from an outburst of gas, and what can be done to reduce them to a minimum? 28

2. A sample of air taken underground shows the following analysis:—Oxygen 17.23%, Carbon-dioxide 2.96%, Methane 4.57%, Nitrogen 74.90%, carbon-monoxide 00.34%. Calculate the Blackdamp percentage of this sample. 18
3. A cross-measure tunnel 8 ft. in height and 10 ft. wide is to be driven a distance of 400 ft. to connect two seams together. The measures consist of sandstones and hard shales, and permission to use dynamite has been obtained. Sketch and describe three patterns or cuts you may use in drilling the face of the rock tunnel. Give an estimate of the amount of powder that would be used per yard of advance, and show clearly the method you would recommend for coupling the shots together to blast the whole round at one time. 25
4. Write the chemical equation showing the quantity of oxygen necessary for the complete combustion of firedamp, and show the atomic weights of the gases involved in the reaction. 15
5. In the main return airway of a mine the methane content was found to be 1.6%, and the quantity of air was found to be 34,000 cu. ft. per minute. The barometer shows a reading of 27.7 inches, and the output of the mine is 1,700 tons per day. What is the quantity of methane given off (a) per minute (b) per day (c) per ton of coal mined? What is the weight of methane per ton of coal per day? 18
6. Sketch and describe the M.S.A. Methane tester, and how it is used in testing for methane. What are your views with regard to examiners using the M.S.A. Methane tester in place of a flame type safety lamp, when making an examination of the mine? 18
7. A section of a bituminous mine has given indications of spontaneous combustion. What would these indications be, and what steps would you take should you find evidence of spontaneous combustion? 22
8. Sketch and describe the M.S.A. Volumeter. Describe how a dust sample is collected and how it is tested by means of the Volumeter. 18
9. Under what conditions would you consider using sheathed explosives in preference to the other unsheathed permitted explosives. What are the advantages and disadvantages of sheathed explosives? 18
10. Carbon-dioxide, Carbon-monoxide, Methane and Blackdamp are the most common gases found in mines. Give the names and chemical symbols of seven of the more rare gases occasionally found in mines, and state whether or not they are explosive when mixed with air. 20

GOVERNMENT OF THE PROVINCE OF ALBERTA

MINES DIVISION

EXAMINATIONS UNDER THE COAL MINES REGULATION ACT

June 5, 6 and 7, 1951

FIRST CLASS CERTIFICATES

Marks obtainable 200 — Marks required 120
Paper No. 3. — Time—3½ hours.

THEORY AND PRACTICE OF VENTILATION

Values

1. State fully what means you would adopt to ensure that a good proportion of the air-current produced reaches the working face. What would you consider a satisfactory proportion in:—(a) an advancing long wall where the faces average one mile from the shaft bottom (b) a retreating long wall where the faces average half a mile from the shaft (c) a room-and-pillar working one mile from the shaft? 20
2. Calculate the weight of air in a downcast shaft twenty feet in diameter and 1,350 feet deep, the barometer reading at the surface being 31 inches and the average temperature in the shaft being 50 degrees Fahr. Also calculate the weight of air in the adjoining upcast shaft of similar dimensions, having an average temperature of 82 degrees Fahr. Estimate the water-gauge at the shaft bottom due to the natural conditions. 18
3. What becomes of the horse-power of energy applied to produce the ventilating current in a mine? Enumerate and briefly describe the successive losses as the air travels from the open atmosphere through the workings to the outlet of the fan. 18
4. A ventilating fan delivers 200,000 cu. ft. of air per minute from its evasee at a velocity of 1,000 ft. per minute. The water-gauge in the fan drift is 2 inches. Calculate the horsepower producing ventilation. Assuming the air to weigh 0.08 lbs. per cu. ft., what proportion of the energy applied to the air is absorbed in imparting the exit velocity to the air-current? If the combined efficiency of the fan and motor is 60%, what horsepower would have to be supplied to the motor to produce the above quantity? 22
5. It is desirable to increase the air-current passing along the face of a mine. State the factors that you would take into account in considering what should be done. 18
6. In an airway 6 ft. by 6 ft. in section and 1,200 ft. long, there is passing 20,000 cu. ft. of air per minute which is insufficient for the proper ventilation of the mine. Since all the available power is in use, it is desired to increase the circulation in the mine by widening the airway to 10 ft. This work was begun 300 ft. from one end and has proceeded 600 ft., leaving 300 ft. on the other end of the original size of the airway. To what extent will the circulation be increased in the mine at this stage? 24
7. The quantity of air passing a branch airway 10 ft. by 6 ft. in section and 2,000 ft. long is 30,000 cu. ft. per minute. What would be the cross-sectional area of a regulator that would reduce the quantity of air passing to 20,000 cu. ft.

per minute? 20

8. Discuss the use of steel arches on main ventilating roadways, stating what type of arch you prefer (horse shoe, straight-sided or splayed), and what steps can be taken to minimize friction. A roadway of this kind, lined with splayed steel arches, is 9 ft. 6 inches high in the clear, 12 ft. wide at springing of arch, and the splay is 7 inches each side. (That is, the width is 13 ft. 2 inches at the floor). When the velocity of the air in this roadway is 450 ft. per minute, what is the approximate quantity passing? 22
9. Assume a colliery ventilated by a single current of 40,000 cu. ft., per minute, with a water-gauge of 3 inches at the fan drift. It is desired to split this air into three currents. Taking your own example of conditions, give a list of all the appliances and arrangements you consider necessary, and a brief account of the operations. When the change has been accomplished, how would you proceed to ascertain the results? 20
10. The volume of air passing through the fan drift is 250,000 cu. ft. per minute, the water-gauge reads 4 inches. The air temperature is 65 degrees Fahr., and the barometer reading is 30.6 inches. Calculate the equivalent orifice using all the information given. 18

GOVERNMENT OF THE PROVINCE OF ALBERTA

MINES DIVISION

EXAMINATIONS UNDER THE COAL MINES REGULATION ACT

June 5, 6 and 7, 1951

FIRST CLASS CERTIFICATES

Marks obtainable 200 — Marks required 120
Paper No. 4. — Time—3½ hours.

PRACTICAL WORK, FIRST AID AND MINE RESCUE WORK

Values

1. What is meant by the terms "Face bump" and "District bump?" What effect has depth and the strength of the intervening strata on the occurrence of bumps? Under what operational conditions would you expect bumps to occur? What steps can be taken to minimize the hazards of bumps? 25
2. A dam has been constructed in a cross-measure tunnel to retain water under pressure. There are signs of leakage both through the dam itself, and the surrounding strata. Describe clearly with sketches how you would deal with this situation. 20
3. Sketch and describe a section of a mine in a flat seam 5 ft. in height, to produce 200 tons of coal per shift of eight hours. The roof is poor, requiring close timbering, and the coal will be cut by machine. Show details of a room timbered ready to be cut, and the details of a pillar place ready for cutting. 27
4. On a main entry in a bituminous mine there is a block of coal measuring 1,200 feet along the entry and 700 feet up the pitch, which is 27 degrees. The seam is 7 feet in height, and outcrops on the surface. Halfway up the pitch the seam is flat for a distance of 50 feet, and when it once more assumes the normal pitch, 27 degrees, the flat portion is parallel to the strike and entry. Describe two methods of developing and depillaring this block, comparing them as to cost and efficiency. State the method you would adopt, and the reasons for your choice. 30
5. An entry has reached what appears to be a fault. Describe the steps you would take to enable you to identify the real form of interruption. Should it be found that it is not a fault, what procedure would you recommend to recover the seam? 18
6. What is meant by the term "Roof bolting" or "Suspension supports?" Give the advantages, and disadvantages of this form of roof support. Sketch and describe how they are installed, and list the equipment used in the operation. 25
7. You have been informed that a fire and explosion have occurred in an entry, caused by an arc from a trailing cable, and that three men are barricaded in an adjoining entry. One of the men has a fractured jaw, another has a fractured pelvis and the remaining man is uninjured, but is in a highly nervous condition. State your procedure in the form of a report to the Director of Mines. 20
8. Sketch and describe a simple device to prevent car couplings from becoming uncoupled whilst in motion or transit. The coupling consists of three links, and a clevis and pin at each end. 15
9. If the collar beams on an entry are eight inches in diameter, where the length of the collar is 10 ft., what should the diameter of a collar be when the length is increased to 14 ft.% The load is the same per unit length and uniformly distributed. 10
10. A sample of coal shows the following particulars:—B.T.U. per pound 9,480, Ash 7.1%, Fixed Carbon 45.9%, Fuel Ratio 1.7. Calculate the percentage of Volatile Matter and Moisture in the sample. 10

GOVERNMENT OF THE PROVINCE OF ALBERTA

MINES DIVISION

EXAMINATIONS UNDER THE COAL MINES REGULATION ACT

June 5, 6 and 7, 1951

FIRST CLASS CERTIFICATES

Marks obtainable 200 — Marks required 120
Paper No. 5. — Time—3½ hours.

MACHINERY

Values

1. Outline briefly the mechanical and electrical equipment which would be required to operate a section of a mine in which a mobile loader is used to

produce 125 tons per eight hour shift in the section. The coal is sub-bituminous in rank and is loaded directly into mine cars. The seam is 5 ft. thick and flat, the power available in the mine is alternating current at 2,200 volts and the loader is crawler mounted. All equipment must be permissible. 24

2. In question No. 1, if 0000 cable is used for distribution of low voltage power at 220 volts, the resistance of which is .04879 ohms per 1,000 ft., calculate the voltage drop which would result in a power supply line 2,000 ft. in length, when all the above equipment was in use. 18
3. Explain the principle of the Chance Sand Flotation Process for removing the impurities from coal. Explain how the required Specific Gravity of the fluid mass is obtained. What advantages are to be obtained by the use of this system for cleaning coal? 22
4. Describe clearly what is meant by "slip" in the case of reciprocating pumps. A three-throw pump has single acting rams 10 inches in diameter and 18 inch stroke. The crank shaft makes 30 revolutions per minute. Assuming the slip amounts to 5% of the theoretical displacement, determine the weight of water discharged by the pump. 18
5. Describe clearly the essential features of a permissible or flame-proof storage battery locomotive. 20
6. A self-acting incline runs with a trip of 12 cars, average gross weight of each car being 1,568 lbs. and tare 540 lbs. The roadway is 1,050 ft. long and has a regular inclination of 9 degrees. The rope weighs 3 lbs. per yard. Calculate the force which must be applied to the brake to keep the trip in check. Co-efficient of friction 1/56, friction of rope 1/10. 18
7. A power plant output of 3,000 kilowatt consumes 4,900 pounds of coal per hour. The coal has a calorific value of 14,000 B.T.U. per pound. What is the efficiency of the plant? Distribute the losses according to their respective causes. 24
8. Sketch and describe a "section switch" for a D.C. trolley line. What useful purpose does it serve? 20
9. A safety valve is 3 inches in diameter and weighs 3 lbs. Its centre is 4 inches from the fulcrum. The lever weighs 8 lbs. and its centre of gravity is 12 inches from the fulcrum. At what distance from the fulcrum must a weight of 100 lbs. be suspended if the steam pressure in the boiler has not to exceed 120 lbs. per sq. in.? 18
10. What is a steam trap? Sketch and describe one type of steam trap and explain how it works automatically. 18

GOVERNMENT OF THE PROVINCE OF ALBERTA

MINES DIVISION

EXAMINATIONS UNDER THE COAL MINES REGULATION ACT

June 5, 6 and 7, 1951

FIRST CLASS CERTIFICATES

Marks obtainable 200 — Marks required 120
Paper No. 6. — Time—3½ hours.

SURVEYING, LEVELLING AND GEOLOGY

Values

1. Tabulate the co-ordinates of the following traverse, and find the bearing and length of the closing line from Station 6 to Station 1.

Station	Bearing	Distance
1 - 2	N. 30° W.	100 feet
2 - 3	N. 60° W.	120 feet
3 - 4	S. 60° W.	200 feet
4 - 5	S. 70° E.	180 feet
5 - 6	S. 30° E.	150 feet..... 40

2. A triangular area in a coal field has a base of 121 yds., and the offset from the base to the vertex has a length of 80 yds. In working by the longwall method, 5,956 tons were gotten in this area from a 4 ft. seam. If the specific gravity of the coal is 1.25, find the percentage of loss in working. 25
3. Find the depth of a shaft which is to be sunk at a point 350 feet horizontally from the outcrop of a coal seam, to intersect at the face of a rock cross-cut driven at right angles to the strike of the seam a distance of 125 feet. The dip of the seam is 60 degrees, and the mouth of the shaft is 50 feet higher in elevation than the outcrop. 30
4. Discuss briefly Clastic rocks and Crystalline rocks, describing how each of these classes have been formed, and the comparative structures as we now find them. 30
5. Work out the following level notes, and draw a profile on a scale of 50 ft. to 1 inch for horizontals and 10 ft. to 1 inch for verticles. Stations are 50 feet apart.

Station	Back Sight	Int. Sight	Fore Sight	Elevation
	13.95			100.00 B. M.
1		9.71		
2		5.05		
3	13.73		0.32	
4		13.84		
5		14.55		
6		15.00		
7	14.32		11.12	
8		11.73		
9		10.65		
10			5.56	35

6. A dipping cross measure drift was driven at a gradient of 1 in 2 on the line

of full dip of the strata to recover a coal seam dipping 1 in 5, which has been thrown down by a fault. The roof of the coal seam was met by the floor of the cross measure drift at a distance of 181 feet and the floor of the coal seam at 201 feet. Calculate the thickness of the coal seam. 30

7. A plan as required by Rule 7 of the Rules Governing Examinations under The Coal Mines Regulation Act must be handed in to the presiding examiners with the answers to this paper. 5
8. A profile of an underground levelling as required by Rule 7 of the Rules Governing Examinations under The Coal Mines Regulation Act must be handed in to the presiding examiners with the answers to this paper 5

GOVERNMENT OF THE PROVINCE OF ALBERTA

MINES DIVISION

EXAMINATIONS UNDER THE COAL MINES REGULATION ACT

June 5, 6 and 7, 1951

SECOND CLASS CERTIFICATES

Marks obtainable 200 — Marks required 100
Paper No. 1. — Time—3½ hours.

THE COAL MINES REGULATION ACT

Values

1. What does Section 15 of the Act state regarding hours of employment below ground, exceptions thereto, and shifts of workmen, etc.? 24
2. State the requirements of Section 63 regarding requirements as to outlets to the surface. 20
3. What does Section 69 and 70 state regarding First Aid and Hospital facilities, respectively? 15
4. What does Section 109 state regarding ventilation of the workings of a mine, the points of measurement of air and recording of same? 26
5. What does Section 123 state regarding inspection of mines in which inflammable gas has been found? 20
6. What does Section 135 state regarding manholes and maintenance of same? 20
7. What are the requirements of Section 142 regarding Hard Hats and other protective clothing? 16
8. What does Section 159 state regarding the rules to be observed by hoisting engineer? 20
9. What does Regulation 21 of the Regulations covering care and use of explosives state in connection with the use of Cardox? 24
10. What does Regulation 1(d) of the Electrical Regulations state in connection with the posting of notices? 15

GOVERNMENT OF THE PROVINCE OF ALBERTA

MINES DIVISION

EXAMINATIONS UNDER THE COAL MINES REGULATION ACT

June 5, 6 and 7, 1951

SECOND CLASS CERTIFICATES

Marks obtainable 200 — Marks required 100
Paper No. 2. — Time—3½ hours.

GASES, SHOT-FIRING AND SAFETY LAMPS AND VENTILATION

Values

1. (a) Name and describe the explosive gases usually found in coal mines. (b) Under what conditions do they become explosive and non-explosive. (c) How are they generated in mines? (d) Where are they usually found and how can they be removed from the workings? (e) What effect have these gases on the health and safety of the workmen? 28
2. How is spontaneous heating in underground workings detected in the earliest stage? What are the evidences of progress? 20
3. Describe the principle of the flame type safety lamp. What three chief purposes does the bonnet of the lamp serve? 20
4. Ventilating pressure in lbs. per square foot equals inches of water gauge multiplied by 5.2. Define how the constant 5.2 has been derived. 16
5. If a current of 45,000 cubic feet of air per minute is produced by a mine fan with a water gauge of 1.5 inches, what is the air horse power? What power must be applied to the fan if the over-all efficiency is 75%? 20
6. What is the object of splitting the air in mines? Sketch a method of splitting, showing at least two splits and mark the course of air travel with arrows. The means for coursing the air is to be shown. 20
7. Describe the aneroid barometer and explain any advantages it may possess over the ordinary mercurial barometer. 16
8. Calculate the rubbing surface of an airway 5,700 feet in length, 10 feet, 6 inches in height and 10 feet wide, the top being semi-circular. 20
9. What is an explosive? Describe the various circumstances under which an explosive is most liable to give off flame and what dangers are incurred therefrom. 20
10. Show by sketch a rock face containing 18 shots. Show clearly the method of coupling the shots in series. What test is usually made to ensure the circuit is complete? 20

GOVERNMENT OF THE PROVINCE OF ALBERTA

MINES DIVISION

EXAMINATIONS UNDER THE COAL MINES REGULATION ACT

June 5, 6 and 7, 1951

SECOND CLASS CERTIFICATES

Marks obtainable 200 — Marks required 100
Paper No. 3. — Time—3½ hours.

PRACTICAL WORK, FIRST AID AND MINE RESCUE WORK

Values

1. Describe fully the method of extraction you would put into effect in recovering coal from a bituminous seam approximately 18 feet high, and pitching around 20 degrees. The mine is equipped with compressed air and electricity. 24
2. Explain thoroughly how you would draw entry pillars in a pitching seam with the entry driven on the foot-wall. The seam of coal is very thick and you want to get the best extraction possible with a maximum of safety. 20
3. Estimate how many rooms, each producing 30 tons per shift, you would need to supply a pitching seam haulage road as outlined:—One main line trolley locomotive, speed 8 m.p.h., length of run 7,040 feet, size of trip 24 cars, each carrying two tons of coal. One gathering locomotive of capacity sufficient to load from chutes and keep the inside parting supplied with loads. Partings are of ample capacity and sufficient empties are available to make full trips at all times. 20
4. (a) What three conditions are the prime factors in determining the size of slopes? (b) Where the roof of a slope is tender, how would you timber it? (c) Should the timber be round or square, and why? 18
5. If 12 men produce 720 tons of coal in 20 days, working 9 hrs. per day, how many tons of coal will 9 men produce in 25 days, working 8 hours per day. 18
6. What first aid treatment would you give to a workman whose eye has been injured? 18
7. Show by sketches (a) A regulator. (b) On a 25 degree slope, the method you would adopt to prevent the track from slipping down grade. (c) The right and wrong way to set timbers on a 30 degree pitch. (d) The method of timbering you would adopt under a fairly good roof and a hard coal. 22
8. In the event of an explosion in a shaft mine, what appliances and stores should be immediately available for rescue work and reopening? What outside assistance would you call for, and how would you organize the operations? Give a full description. 22
9. You have just installed a tugger for hoisting mine timbers in a vertical shaft from a lower to an upper seam. Your tugger is 5 h.p. The props weigh 90 lbs. each, and the speed of the rope is 200 feet per minute. Assuming the tugger effectively develops 50% of its rated horsepower, how many props can you hoist in one load? 18
10. (a) What is "creep?" (b) How may a creep be stopped and the damage localized? (c) What causes produce creep and caves? 10

GOVERNMENT OF THE PROVINCE OF ALBERTA

MINES DIVISION

EXAMINATIONS UNDER THE COAL MINES REGULATION ACT

June 5, 6 and 7, 1951

SECOND CLASS CERTIFICATES

Marks obtainable 200 — Marks required 100
Paper No. 4. — Time—3½ hours.

MACHINERY

Values

1. Water in a mine has to be displaced 250 feet vertically by a plunger pump that has steam and water pistons of equal diameter. (a) What is the theoretical steam-pressure that will operate the pump? (b) If the pump had an eight-inch steam-end and a six-inch water-end, what would be the theoretical steam pressure required? 22
2. A Direct Current Generator is developing 50 horsepower, with an electrical pressure of 500 volts. What is the current flow in Amperes? 18
3. (a) Why is a safety-valve placed on a steam boiler?
   (b) What type of safety-valve do you prefer?
   (c) Describe the valve and give reasons for your choice. 18
4. State briefly the points that would cause you to favor each of the following methods of haulage:
   (a) Horse haulage.
   (b) Direct haulage (gravity).
   (c) Main and tail haulage.
   (d) Endless rope haulage. 24
5. A shaft 900 feet deep and 15 feet in diameter is full of water. (a) What is the pressure, measured in lbs. per square inch, exerted by the water at the bottom of the shaft? (b) If the water is pumped through a four-inch pipe, at a velocity of 300 feet per minute, how long will it take to pump the water out of the shaft? 22
6. Define the following terms:—Unit of Heat, Work and Power 18
7. What is the purpose of an injector? Name the three principal parts of an injector. Explain the use of a fusible plug in connection with a steam boiler. 20
8. A small motor driven hoist is to run with a rope speed of 200 feet per minute

and the drum is to revolve at 25 r.p.m. What must be the diameter of the drum? 18

9. Maximum hoisting speed at a shaft mine is 600 feet per minute. Weight of cage is 1,200 lbs. Weight of car is 600 lbs. Weight of load is 2,200 lbs. Find the effective horsepower required for (a) Single-cage shaft. (b) Double cage shaft. 22

10. A rectangular collar 10 inches deep supports 15,000 lbs. What will it support if its depth is increased to 12 inches? 18

GOVERNMENT OF THE PROVINCE OF ALBERTA

MINES DIVISION

EXAMINATIONS UNDER THE COAL MINES REGULATION ACT

June 5, 6 and 7, 1951

SECOND CLASS CERTIFICATES

Marks obtainable 200 — Marks required 100
Paper No. 5. — Time—3½ hours.

SURVEYING, LEVELLING AND GEOLOGY

Values

1. Plot by protractor, or by any other method, the following notes of an underground survey, on a scale of one inch equals one hundred feet, and find the length and bearing of the closing line from Station 6 to Station 1.

Station	Azimuth	Distance
1 - 2	330°00'	200'
2 - 3	280°00'	250'
3 - 4	240°00'	300'
4 - 5	150°00'	350'
5 - 6	120°00'	290' 35

2. A mine plan shows the workings of a flat seam drawn to a scale of one inch equals 200 feet. The measurements of a rectangular pillar on this plan are 2.75 inches, by 3.25 inches, and the pillar has been calculated to contain 74,850 tons of coal. What is the height of the seam? The Specific Gravity of the coal is 1.34. 25

3. An entry has been driven parallel to a boundary line, and the distance between the entry and the boundary line is 180 feet. Rooms are to be driven off the entry at an angle of 45 degrees. What is the maximum distance the rooms may be driven, allowing a boundary pillar of 60 feet? What would be the length of the rooms if they were turned off the entry at an angle of 60 degrees? 20

4. Sketch a township, and show how the sections are numbered, and show the locations of the road allowances. Sketch a section and show how the legal subdivisions are numbered. What is the area of a legal subdivision? 20

5. Work out the following level notes, filling in the elevations of each station, and check the difference of elevations of Station 1 and Station 6 with back-sights and fore-sights.

Station	Back Sight	Int. Sight	Fore Sight	Elevation
1				100.00
	5.84			
2		3.08		
	7.87		1.84	
3		1.84		
	4.69		5.04	
4		2.70		
5		3.16		
6			4.23	35

6. The following names have been given to certain geological formations in the Province: Kootenay, Fernie, Crow's Nest Volcanics, Spray River, Benton, Edmonton, Belly River, Bear Paw, Paskapoo, Blairmore, Foxhill and Lea Park. Arrange the above in the order of geological succession and indicate which measures are coal bearing. What is meant by the terms Igneous, Aqueous and Metamorphic with reference to rock formations? 25

7. Sketch and define the following: Anticline, Trough Fault, Syncline, Monocline, Volcanic Intrusion, Wash-out. 25

8. The following magnetic bearings were taken underground: N 33 degrees W, S 45 degrees E, S 27 degrees W, N 44 degrees E. What are the true bearings if the magnetic declination is 21 degrees W? 15

GOVERNMENT OF THE PROVINCE OF ALBERTA

MINES DIVISION

EXAMINATIONS UNDER THE COAL MINES REGULATION ACT

May 29, 1951

THIRD CLASS CERTIFICATES

Marks obtainable 200 — Marks required 100
Paper No. 1. — Time—1½ hours.

THE COAL MINES REGULATION ACT

Values

1. Give the interpretations to the following terms (Sec. 3):—
   (a) "District" or "Split."
   (b) "Examiner."

(c) "Miner."
(d) "Safety lamp." 25

2. What does Section 61 state regarding appointment of Examiners, their duties and qualifications? 25
3. What does Section 66 state regarding fan required to provide ventilation? 20
4. State the requirements of Section 109 regarding adequate ventilation to be constantly produced. What are the special provisions of this section with regard to ventilation on longwall faces? 25
5. What does Section 111 state in connection with ventilation in worked out or abandoned parts of the mine? 20
6. What does Section 127 state regarding daily inspection of airways by Examiner? 20
7. What precautions should be taken when approaching dangerous accumulations of water or gas? (Sec. 132). 20
8. What does Regulation 8 of the Regulations state regarding the removal of standing gas? 20
9. What does Regulation 16 of the Explosive Regulations state regarding shot-firing in dry and dusty places? 25

GOVERNMENT OF THE PROVINCE OF ALBERTA

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EXAMINATIONS UNDER THE COAL MINES REGULATION ACT

May 29, 1951

THIRD CLASS CERTIFICATES

Marks obtainable 200 — Marks required 100
Paper No. 2. — Time—2 hours.

VENTILATION

Values

1. How much air is required in a district of the mine giving off methane at the rate of 200 c.f.m., to dilute it to a mixture containing 1% of gas? How many men could you work in this district? 22
2. State the reasons that may cause any variations in a water gauge reading. 24
3. What is meant by "splitting the air" and what advantages are obtained thereby? 30
4. Sketch a water gauge with a reading of 7.8 lbs. per sq. ft. on an exhausting fan. If the fan were reversed, what would be the approximate difference in pressure of the two systems of ventilation? 24
5. The quantity of air passing into a mine is 57,000 cu. ft. per min. The quantity passing through the return is 58,000 cu. ft. per min. Give the various reasons that may cause this increase. 24
6. Name and state the purposes of the various devices used to conduct a ventilating current in a mine. 30
7. What is spontaneous combustion? What indications would lead you to suspect same? 24
8. What is the horsepower required to produce a current of 120,000 c.f.m. with a water gauge of 3.5 inches? 22

GOVERNMENT OF THE PROVINCE OF ALBERTA

MINES DIVISION

EXAMINATIONS UNDER THE COAL MINES REGULATION ACT

May 29, 1951

THIRD CLASS CERTIFICATES

Marks obtainable 200 — Marks required 100
Paper No. 3. — Time—1½ hours.

PRACTICAL WORK

Values

1. In drawing pillars, what observations would you make to ensure the safety of the workmen in (a) a flat seam (b) a seam pitching thirty degrees? 30
2. In connection with a centrifugal pump operating against a high head, there is in use a footvalve, check valve, gate valve, by-pass valve and an air release on the pump. Are all the foregoing items necessary and if so, why? 30
3. State the purpose of any self-contained oxygen breathing apparatus you are familiar with. What two main tests would you apply? Why is there a by-pass and a reducing valve? How would you remove the excess nitrogen from the breathing bag? 30
4. What horsepower is required to pump 110 gals. per min. against a head of 300 feet? Disregard factors such as friction, efficiency, etc. 20
5. What unsafe conditions would you look for when making a pre-shift inspection of your district? 25
6. Sketch a three piece set of timber in flat work where there will be side pressure 20
7. Name three types of conveyors used in coal mines. Describe briefly the most common type found in mines in Alberta and list its advantages over the other two types. 20
8. Sketch a grade stick, giving measurements, and show how it is used on a roadway having a 2% grade. 25

GOVERNMENT OF THE PROVINCE OF ALBERTA

MINES DIVISION

EXAMINATIONS UNDER THE COAL MINES REGULATION ACT

May 29, 1951

THIRD CLASS CERTIFICATES

Marks obtainable 200 — Marks required 100
Paper No. 4. — Time—2 hours.

MINE GASES, SHOT FIRING, EXPLOSIVES AND SAFETY LAMPS

Values

1. (a) What is the basic principal of the Flame Safety Lamp? (b) Name six essential features in a good Flame Type Safety Lamp. 24
2. Name the four principal gases met with in coal mines. State their chemical symbols and specific gravities. How are each detected? 24
3. Describe fully how you would make your inspection of the underground workings of a mine before the shifts commenced work. What tests would you make and how would you make them? What direction would you travel with reference to the ventilation currents? 28
4. (a) Give your opinion why it is good practice to check the airways for gas with an approved gas detector. (b) Name the Gas Detectors permitted in Alberta, under the Coal Mines Regulation Act. 24
5. Describe fully how you would proceed to tamp and fire a shot in a mine giving off inflammable gas. 28
6. As an examiner on a longwall face, you discover CH_4 at the top rib, which is 30 feet above the return airway. Make a rough sketch and describe how you would keep this 30 feet of wall clear of gas. 24
7. What do you consider the chief dangers to be apprehended from shot firing in mines? Make some suggestions with a view to the reduction or elimination of such dangers. 24
8. Give the names of the explosives on the List of Permitted Explosives under The Coal Mines Regulation Act, and the permissible maximum charge for any one shot. 24

GOVERNMENT OF THE PROVINCE OF ALBERTA

MINES DIVISION

EXAMINATIONS UNDER THE COAL MINES REGULATION ACT

June 7, 1951

MINE SURVEYORS' CERTIFICATES

Marks obtainable 200 — Marks required 120
Paper No. 1. — Time—3½ hours.

SURVEYING

Values

1. Plot the following survey, by latitudes and departures, on the scale 1/1200, finding the closing course and distance from Station 7 to Station 1.

Course	Bearing	Distance
1 - 2	N. 28°E.	212 feet
2 - 3	S. 85°E.	108 feet
3 - 4	S. 15°W.	198 feet
4 - 5	S. 80°E.	110 feet
5 - 6	S. 42°W.	92 feet
6 - 7	N. 88°E.	208 feet

45

2. A heading is driven to the rise in a seam which dips to the west at 1 in 8, and it reaches an upthrow fault having a hade of 30 degrees and a throw of 15 yards at a point A. Calculate the length of a cross-measure drift rising at 1 in 4 from the point A to reach the upthrow part of the seam at the point F. 30
3. A triangle ABC has sides AB measuring 572 feet; BC 396 feet; and CA 444 feet. Calculate the area of the triangle, the size of the angle CAB, and having drawn the figures to scale of 1 inch to 100 feet, find the position of a point D so that the triangle DAB is equal in area to the triangle CAB and the angle DAC is twice the angle CAB. 40
4. An excavation for a building is made in ground which rises due North uniformly at 1 in 10. The level base of the excavation is rectangular 60 feet by 40 feet. The front commences at surface level on an East and West line 60 feet long and the two sides and back of the excavation slope at 1 vertical to 2 horizontal. Calculate the volume of the excavation in cubic yards. 30
5. The following bearings and lengths define an irregular boundary line from "A" to a point "B" on a straight boundary line "CBD" running North and South. Plot these bearings and lengths to a scale of 1 inch equals 100 feet, and lay down a straight line from "A" to a point on "CBD", which can be substituted as a boundary line for the irregular boundary, without injustice to either property.

From "A"	N. 65° E.	125 feet
	S. 46° E.	250 feet
	East	110 feet
	N. 48° E.	130 feet
	S. 60° E.	175 feet to "B".

30

6. The following are the bearings recorded while making a closed survey:

Station	Bearing
1 - 2	S. 86° 30' E.
2 - 3	S. 15° 47' W.
3 - 4	S. 74° 19' W.
4 - 5	N. 62° 43' W.
5 - 1	N. 18° 11' W.

Has the instrumentman made a mistake? 20

7. A plan as required by Rule 7 of the Rules Governing Examinations under The Coal Mines Regulation Act, must be handed in to the presiding examiners with the answers to this paper. 5

GOVERNMENT OF THE PROVINCE OF ALBERTA

MINES DIVISION

EXAMINATIONS UNDER THE COAL MINES REGULATION ACT

June 7, 1951

MINE SURVEYORS' CERTIFICATES

Marks obtainable 200 — Marks required 120
Paper No. 2. — Time—3½ hours.

LEVELLING AND GEOLOGY

Values

1. The floor level notes of a roadway are as follows:

Station	Back Sight	Int. Sight	Fore Sight	Elevation
	4.85			100.00 B.M.
0		3.55		
1		3.65		
2		3.65		
	4.30		2.60	
3		4.25		
4		5.15		
	6.00		5.60	
5		6.25		
6		4.32		
	4.90		3.25	
7		5.25		
8		5.75		
	2.31		6.00	
9		3.42		
10			5.01	

Work out the notes, and plot a profile on a scale of 1 inch to 100 feet for horizontal and 1 inch to 5 feet for vertical. Show the average gradient from Station 0 to 10. Mark the depths of cut or fill at each station, and calculate the cubic yardage of cut from the floor to make a uniform grade from Station 0 to 10, roadway being 9 feet wide, and stations 100 feet apart. 50

2. Describe how you would test the levelling instrument and staff before undertaking an important levelling. How would you make the necessary adjustments if your tests showed these to be necessary? 30

3. A block of coal 4 feet in thickness, which has been left unworked in a level seam, is in the form of a square of which the diagonals measure 600 feet in length. It is proposed to extract 25% of the coal in the block on the longwall method by driving a road having one of the diagonals as centre line. Calculate the width of the face, the coal having a specific gravity of 1.28. 30

4. Enumerate the various plans which are required to be kept in accordance with The Coal Mines Regulation Act, and their respective uses. 20

5. From a point directly North of an inaccessible peak, the angle of elevation of the top is found to be 28 degrees. From another point on the same level and directly West of the peak, the angle of elevation of the top is 40 degrees. Find the height of the peak, if the distance between the two points of observation is 6,000 feet. 35

6. A piece of level ground, eight acres in extent, has been taken over for stock-piling purposes. The ground is in the form of a rectangle with the length twice the breadth. The top of the heap will be at a height of 40 feet above ground level and the angle of repose will be 37½ degrees. Calculate the tonnage that can be stock-piled. It is estimated that one ton of coal will occupy 27 cu. ft. 30

7. A profile of an underground levelling as required by Rule 7 of the Rules Governing Examinations under The Coal Mines Regulation Act must be handed in to the presiding examiners with the answers to this paper. 5

GOVERNMENT OF THE PROVINCE OF ALBERTA

MINES DIVISION

EXAMINATIONS UNDER THE COAL MINES REGULATION ACT

May 29, 1951

MINE ELECTRICIANS' CERTIFICATES

FIRST CLASS

Marks obtainable 200 — Marks required 120
Paper No. 1. — Time—1½ hours.

THE COAL MINES REGULATION ACT

		Values
1.	What does Section 50 of the Act state regarding mine electricians, their appointments, certification and the offences for non-compliance, etc.?	50
2.	Under Regulation 1 of the Electrical Regulations, what is meant by:— (a) "Pressure." (b) "Low Pressure." (c) "Medium Pressure." (d) "High Pressure." (e) "Extra High Pressure."	24
3.	What notices are required to be exhibited where necessary? (Reg. 1 (d)).	28
4.	What does Regulation 1(k) state regarding the construction and maintenance of terminals, cable ends, cable joints and connections of apparatus?	26
5.	What does Regulation 1(n) state regarding flexible cables for portable apparatus?	28
6.	What additional requirements shall be observed in all cases where dust or inflammable gas is present or likely to occur? (Reg. 1(p)).	44

GOVERNMENT OF THE PROVINCE OF ALBERTA

MINES DIVISION

EXAMINATIONS UNDER THE COAL MINES REGULATION ACT

May 29, 1951

MINE ELECTRICIANS' CERTIFICATES

FIRST CLASS

Marks obtainable 200 — Marks required 120
Paper No. 2. — Time—2 hours.

THEORY

		Values
1.	At what current value should the overload relays be set for the following three phase induction motor:— 30 H.P., 220 volts, efficiency 80 per cent, power factor .85. Show how you arrive at answer.	30
2.	(a) What is the capacity of two 50 K.V.A. transformers connected Open Delta?	15
	(b) What are the standard polarity markings for transformers?	15
3.	What size of conductor would be necessary to give a 3 per cent drop on a 110 volt circuit carrying 20 amps, a distance of 100 feet? Show your work.	30
4.	Find the kilowatts used in a single phase circuit with the following data available:— Current 40 amps, volts 220, power factor 80.	30
5.	Explain the cause of humming, chattering and noise in connection with a single phase alternating current magnet. What can be done to produce a relatively quiet single phase magnet?	40
6.	Find the horsepower output of a three phase motor with the following data available:— Current 200 amps, voltage 550, power factor 85, efficiency 80 per cent.	40

GOVERNMENT OF THE PROVINCE OF ALBERTA

MINES DIVISION

EXAMINATIONS UNDER THE COAL MINES REGULATION ACT

May 29, 1951

MINE ELECTRICIANS' CERTIFICATES

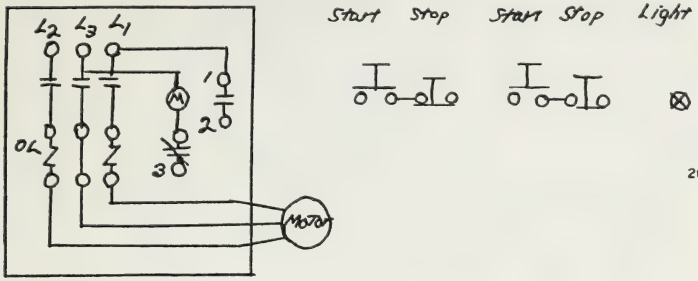
FIRST CLASS

Marks obtainable 200 — Marks required 120
Paper No. 3. — Time—3½ hours.

PRACTICAL WORK

		Values
1.	(a) A 2,300 volt, three phase line and a 220 volt three phase line are to be run on the same pole line. Which line would you install on top and what would be the minimum vertical separation between them?	10
	(b) Where should lightning arresters be placed to protect underground power lines?	10
2.	Describe an electric Methane Gas Detector, explaining how it operates to register the amount of gas in the air.	15
3.	(a) What would happen if the field winding of a shunt or compound direct current motor is opened while the motor is in operation?	10
	(b) What would happen if the field winding of a series motor is opened while the motor is in operation?	10
4.	(a) Describe a common electric lamp used by miners in gaseous mines and explain its safety features.	10
	(b) What maintenance do these lamps require?	10

5. Sketch the connections for 2 Start-Stop buttons and an indicating light which will be bright when the motor is running.



20

6. What is meant by a Star-Delta motor starter? Describe its duty stating how it is connected to the motor for starting. 20
7. (a) A large mine uses quite a number of magneto telephones underground. What would the following troubles indicate to you:—
   1 Bells do not ring clearly and crank turns heavily.
   2 Bells ring clearly and crank turns more lightly than normal.
   3 You can hear but the person at the other end cannot hear you.
   4 Too much noise on phone.
   (b) What protection should be installed for telephone lines entering underground workings? 20
8. (a) In installing a service to a tipple, where and when should a gutter be used? Explain how gutters should be equipped for different loads and number of switches.
   (b) How would you install lighting in a powder magazine?
   (c) How would you install conductors passing over a building in the mine yard? 25
9. (a) A motor develops an unusual noise, what troubles would you suspect?
   (b) What safety precautions should be provided for high voltage motors and control apparatus? 20
10. (a) How would operating an A.C. induction motor at too high a voltage affect the motor characteristics?
    (b) How would operating the motor at too low a voltage affect the motor characteristics? 20

GOVERNMENT OF THE PROVINCE OF ALBERTA

MINES DIVISION

EXAMINATIONS UNDER THE COAL MINES REGULATION ACT

May 29, 1951

MINE ELECTRICIANS' CERTIFICATES

SECOND CLASS

Marks obtainable 200 — Marks required 100
Paper No. 1. — Time—3½ hours.

THE COAL MINES REGULATION ACT

Values

1. What is meant by the following electrical terms? (Reg. 1).
   (a) "Open sparking."
   (b) "Authorized person."
   (c) "Electrician."
   (d) "Danger." 24
2. What notices are required to be sent to the District and Electrical Inspector of Mines? (Reg. 1(b)). 20
3. What does Regulation 1(f) state regarding the placement, construction and working space for all transformers, m.g. sets and switch gear? 22
4. What does Regulation 1(h) state in connection with the earthing of all metallic sheaths, coverings, handles, joint boxes and other apparatus? 30
5. What does Regulation 1(k) state in connection with switch-gear and all terminal ends, cable ends, joints and connections of apparatus? 20
6. What does Regulation 1(n) state in connection with flexible cables for portable apparatus? 22
7. What do the Regulations state regarding:—
   (a) Current used for firing shots. (Reg. 1(q)).
   (b) Electricity for signalling. (Reg. 1(r)). 18
8. What does Section 15(b) of the Strip Mine Regulations state in connection with shot firing from a power circuit? 16
9. What does Section 149, rule 2, of the Act state regarding the fencing of machinery? 14
10. What does Section 149, rule 28, state regarding the providing of telephones below ground? 14

GOVERNMENT OF THE PROVINCE OF ALBERTA

MINES DIVISION

EXAMINATIONS UNDER THE COAL MINES REGULATION ACT

May 29, 1951

MINE ELECTRICIANS' CERTIFICATES

SECOND CLASS

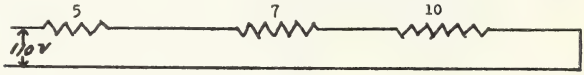
Marks obtainable 200 — Marks required 100
Paper No. 2. — Time—3½ hours.

THEY AND PRACTICAL WORK

Values

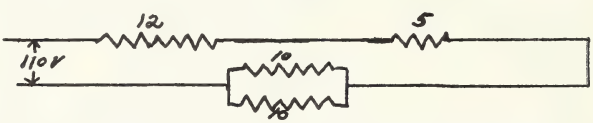
1. What is the essential difference between a motor used in hoisting at a mine shaft and one used to drive a fan? Both motors are the same capacity and use power from the same source. 20
2. Where an underground water system is not available, what type of ground electrode would you install and how would you install same? What resistance to ground would you consider satisfactory? 20
3. You are called down a mine to test out and start a stalled motor. Explain what might be the cause and how you would locate and remedy it. 20
4. The 110 volt circuits illustrated below have resistances in ohms, as marked, one with resistances in series and one with resistances in series-parallel. Find the current value in each circuit. Show how you arrive at answer.

(a)



10

(b)



15

5. Explain how you would wire up and arrange the signals for hoisting in a shaft at a gaseous mine. What kind of bells and signal stations would you install and where would you place same? 20
6. The 110 volt lights in a long belt conveyor shed are to be controlled with switches from both ends of the shed. Sketch the connections to switches and lights showing which line is grounded. 20
7. A 30 H.P. direct current motor is fully loaded. At 250 volts what current will the motor draw? 20
8. An electric coal cutting machine is continually burning out controller contacts. Explain what you think would be the trouble. 20
9. What is the standard voltage between the three wires of a low potential, 3 wire, single phase lighting system and between conductors and ground? 20
10. A machine trailing cable in a mine is overheating. Explain the troubles you would look for. 15

GOVERNMENT OF THE PROVINCE OF ALBERTA

MINES DIVISION

EXAMINATIONS UNDER THE COAL MINES REGULATION ACT

June 7, 1951

STRIP MINE MANAGERS' CERTIFICATES

Marks obtainable 200 — Marks required 120
Paper No. 1. — Time—3½ hours.

THE COAL MINES REGULATION ACT

Values

1. What do the Strip Mine Regulations state regarding transportation, storage and use of explosives? (Reg. 7 and 8). 22
2. What are the interpretations of the following terms under Section 3 of the Act?
   (a) "Agent."
   (b) "Boundary lines."
   (c) "Inspector."
   (d) "Owner."
   (e) "Plan." 20
3. What does Regulation 16 of the Strip Mine Regulations state regarding excavation and disposal of overburden? 20
4. What does Section 8(a) of the Act state in connection with water from any mine or building which may constitute a nuisance, inconvenience or source of danger? 22
5. What are the requirements of Regulation 17 of the Strip Mine Regulations in connection with the operation of shovels, draglines and tractors? 18
6. What does Regulation 15 of the Strip Mine Regulations state regarding:—
   (a) Shotfiring by electricity.
   (b) Shotfiring by blasting machine. 20

7. What does the Act state regarding:—
   (a) First Aid facilities. (Sec. 69).
   (b) Hospital facilities. (Sec. 70). 20
8. What are the requirements of the Strip Mine Regulations with reference to:—
   (a) Inspection of shotholes before inserting explosives. (Reg. (9)).
   (b) Stemming of shot holes. (Reg. (10)).
   (c) Work in connection with drilling, springing and blasting. (Reg. (11)). 20
9. State the requirements of the general rules under Section 149 of the Act regarding:—
   (a) Inspection of machinery. (Rule 4).
   (b) Report of accident by person injured. (Rule 12).
   (c) Intoxicated persons. (Rule 14).
   (d) Guiding of moving ropes. (Rule 26). 16
10. What does Regulation 2 of the Strip Mine Regulations state regarding supervision by manager? 22

GOVERNMENT OF THE PROVINCE OF ALBERTA

MINES DIVISION

EXAMINATIONS UNDER THE COAL MINES REGULATION ACT

June 7, 1951

STRIP MINE MANAGERS' CERTIFICATE

Marks obtainable 200 — Marks required 120
Paper No. 2. — Time—3½ hours.

THEORY AND PRACTICAL WORK

Values

1. It is proposed to start a strip mine on the outcrop of a pitching seam in the Foothills of Alberta. What factors would you give serious consideration to, so as to arrive at sound conclusions respecting the feasibility of the proposed venture? 20
2. A strip mine with level surface and horizontal seams is 80 yards square on the surface of the overburden and 60 yards square on the bottom of a 6 foot seam of coal. The over-burden is 8 yards in thickness. Calculate the ratio of overburden to coal, if the sides slope uniformly. 20
3. There is one or more rock bands in the coal seam which is situated 10 miles from the tipple and shipping point. The rock breaks up into small pieces when loaded by power shovel, but can be easily hand-cleaned. Describe how you would separate as much of this rock as possible from the coal in the pit, with due consideration to safety and of reducing the haulage cost to a minimum. 20
4. What is meant by the following geological terms: Washout, dyke, strike, dip, fault, anticline, syncline and monocline? Illustrate your answers by sketches. 18
5. A strip mine is being operated on a leased coal area. The thickness of the seam being variable, royalty was fixed at the rate of $35.00 per inch of coal acre worked per year. Four pits are being worked and measurements showed the following figures for a year's operation. Calculate the average thickness of coal over the entire lease and the amount of royalty payable.

Pit	Acres extracted	Average thickness of coal
1	7.845	52.8 ins.
2	8.174	44.6 ins.
3	11.260	59.1 ins.
4	2.941	42.8 ins.

26

6. A new strip mine is being started, the property has been proved as to probable (1) thickness of stripping (2) thickness of coal seam (3) direction and amount of dip (4) nature of surrounding territory which seems to indicate the water will be quite a factor in the mining of coal after the stripping is done. Describe in a general way as to what provisions you would make to deal with what could be a very unpleasant situation due to the water condition. 18
7. A single cylinder steam engine has a cylinder of 11 inches diameter and a stroke of 2 feet 3 inches. It runs at 110 r.p.m., with an average steam pressure of 45 lbs. per square inch. It drives an electric generator which has an output of 135 amperes at 115 volts. What will be the efficiency of the installation? 20
8. Explain briefly the origin of coal, and what is meant by "in situ" theory and "drift" theory. 18
9. At A, the edge of a stip pit, the overburden is 16.65 feet thick. The surface is undulating and a survey of same gives the following particulars.

Course	Distance	Gradient
A-B	150 feet	Rising 2.6%
B-C	175 feet	Rising 4.3%
C-D	130 feet	Dipping 2.6%
D-E	148 feet	Level
E-F	210 feet	Rising 2.25%

Find the thickness of overburden at each point. 20

10. A load of 11,200 lbs. is to be suspended by mild steel rods which are joined at the overlapping ends by a single bolt. If the shear stress is 80% of the tensile stress, and the latter is 60,000 lbs. per sq. in., find the bolt diameter to have a factor of safety of 8. 20

LIST OF TRADE NAMES UNDER WHICH COAL IS SOLD, FROM MINES OPERATING AT DECEMBER 31, 1951

Mine No.	Name	Address	Registered Trade Name
Ardley Area			
255	R. R. Straub	Alix	Conger Coal
809	J. W. Sissons	Alix	Pearl of Furnace Coal
969	Karl Schnepf	Delburne	Great Bend Coal
1135	C. Kurp	Delburne	Kurp's Coal
1488	Allyn Mann Construction Co.	Alix	Eclipse Coal
1613	Elnora Construction Co.	Elnora	Armstrong Coal
1673	D. L. Gordon	Warden	Gordon Coal
1675	John Lynass	Delburne	Glenniffer Coal
1716	Alphonso Blair	Delburne	Watson and Blair Coal
Big Valley Area			
864	Big Valley Collieries (Alta.) Ltd.	Big Valley	Big Valley Coal
1661	Robert Campkin and Sons	Lousana	The Campkin Mine
1708	George L. Grant	Fenn	Grant Coal
Brooks Area			
1404	Kleenbirn Collieries Ltd.	Eyremore	Birnwell Coal
1672	Cragg, Cragg and Oliver	Rolling Hills	Gold Fleck Coal
Camrose Area			
241	Joe Proskow	Dinant	Proskow Coal
724	S. H. Burnstad	Ohaton	Burnstad's Coal
1055	A. A. Campbell and C. A. Fergstad	Round Hill	Eskimo Coal
1524	George Shute and Partners	Dinant	Demay Coal
1603	Alberta Coal Co. Ltd.	Camrose	Camrose Coal
Carbon Area			
53	A. Fox	Carbon	Carbon Sunrise Coal
194	A. A. McArthur	Three Hills	Kneehill Coal
384	Inland Coal Co. Ltd.	Three Hills	Kneehill Valley Coal
710	East Trochu Coal Mine	Trochu	Troalta Coal
817	Ben Pickering	Ghost Pine	Orkney Coal
921	E. Reissig	Trochu	Meadow Bank Coal
1060	East Carbon Coal Co. Ltd.	Carbon	Reliable Coal
1226	C. C. Campbell	Trochu	Campbell Coal
1283	J. Halbert & Fred Beierle	Trochu	H.B. Coal
1359	Balogh Brothers	Carbon	Arctic Coal
1499	Nuttal and Davidson	Three Hills	Fire King Coal
1719	Alvin Notland	Morrin	Notland Coal
1723	Eugene Beaudet	Munson	River Flat Coal
Cascade Area			
2	The Canmore Mines Ltd.	Canmore	Canmore Smokeless Coal
2	The Canmore Mines Ltd.	Canmore	Canmore Briquettes Coal
1244	Frank Wheatley	Banff	Wheatley Bros. Coal
1677	Kananaskis Exp. and Devel. Co. Ltd.	Seebe	Cascade Coal
Castor Area			
251	J. Tyrlik and S. Musat	Heisler	Diamond G. Coal
291	James Chiswick	Gadsby	Sunset Coal
447	J. R. James and A. J. James	Forestburg	Ever Ready Coal
615	Komperdo and Partners	Heisler	Riverside Coal
902	O. V. Remillard	Castor	Remillard Coal
953	Wiltse, Cordel and Pilsworth	Forestburg	Battle River Coal
1046	Alberta Coal Co. Ltd.	Halkirk	Cordel Coal
1062	Charles Strader	Halkirk	Esperanze Coal
1232	J. H. Ainsworth	Halkirk	Ainsworth Coal
1237	Dan Dryden	Halkirk	Ruby Glow Coal
1248	B. J. Gerla and W. Runge	Donalda	Success Coal
1343	Joseph Haden	Castor	Haden's Strip Mine Coal
1417	James Easton	Castor	Burn-Rite Coal
1435	Thomas Mitchinson	Donalda	Rosebush Coal
1441	Leonard Buckle	Donalda	Black Emerald Coal
1572	William Jones, Sr.	Donalda	Meeting Creek Coal
1578	Forestburg Collieries Ltd.	Forestburg	Diplomat Coal
1587	J. J. Mills	Heisler	Eagle Coal
1614	Stettler Coal Co. Ltd.	Stettler	All-Fire Coal
1634	F. N. Wiltse	Halkirk	Canyon Mine Coal
1650	John Lynass	Forestburg	Golden Glow Coal
1689	N. MacPherson and D. Kroetch	Heisler	Black Jade Coal
1691	A. J. Shannon and J. Lang	Halkirk	S. & L. Coal
1697	M. Muyres and Sons	Forestburg	Muyres Coal
1702	Thomas Strickland	Heisler	Palace Coal
1713	Wisla Brothers	Rosalind	Rosalind Coal
1718	W. A. Jones	Rosalind	Centennial Coal
Champion Area			
136	George Rhodes	Champion	Therriault Coal
1137	Carlo Travaglia	Champion	Smith Coal
1509	P. Fontana and Sons	Champion	Champion Coal
1565	Mike Popovich	Champion	Ellis Coal
1717	Wm. Russell	Carmangay	Butte Jewel Coal

Coalspur Area			
769	Sterling-Coal Valley Min. Co. Ltd.	Sterco	Sterling Coal
771	Foothills Collieries Ltd.	Foothills	Foothills Coal
846	McLeod River Hard Coal Co. (1941) Ltd.	Mercoal	McLeod River Hard Coal
1002	Sterling-Coal Valley Min. Co. Ltd.	Coal Valley	Cova Coal
1157	North Western Coal & Oil Ltd.	Robb	Bryan Mountain Hard Coal
1692	Long Coal Co. Ltd.	Coalspur	King Coal
Crowsnest Area			
87	West Canadian Collieries Ltd.	Bellevue	Bellevue Coal
88	International Coal & Coke Co. Ltd.	Coleman	International Coal
133	Hillcrest Mohawk Collieries Ltd.	Bellevue	Hillcrest Mohawk Coal
199	Beaver Mines Coal Co.	Beaver Mines	Beaver Mine Coal
204	McGillivray Creek Coal & Coke Co. Ltd.	Coleman	McGillivray Creek Coal
396	West Canadian Collieries Ltd.	Blairmore	Greenhill Coal
1584	West Canadian Collieries Ltd.	Bellevue	Adanac Coal
1695	Hillcrest Mohawk Collieries Ltd.	Bellevue	Tent Mountain Coal
Drumheller Area			
346	Rosedale Collieries Ltd.	Rosedale	Rosedale Coal
367	Midland Coal Mining Co. Ltd.	Drumheller	Midland Coal
367	Midland Coal Mining Co. Ltd.	Drumheller	Mercury Coal
402	Red Deer Valley Coal Co. Ltd.	Drumheller	Glocoal
422	Century Coals Ltd.	Drumheller	Commander Coal
436	Rosedale Collieries Ltd.	Aerial	Star Coal
1258	Brilliant Coal Co. Ltd.	Drumheller	Brilliant Coal
1299	Saskatchewan Fed. Co-ops. Ltd.	East Coulee	Empire Coal
1421	Saskatchewan Fed. Co-ops. Ltd.	Drumheller	Hy-Grade Coal
1436	Royalty Coal Mining Co. Ltd.	Drumheller	Royalty Coal
1484	Century Coals Ltd.	Drumheller	New Wildfire Coal
1491	Murray Collieries Ltd.	Drumheller	New Murray Coal
1511	Aetna Coals Ltd.	Wayne	Aetna Coal
1515	E. R. James	East Coulee	Empress Coal
1520	The Minute Coal Co. Ltd.	Drumheller	Good Quality Coal
1570	Wayne Coal Co. Ltd.	Wayne	Sovereign Coal
1573	Monarch Coal Mining Co. Ltd.	Drumheller	Western Monarch Coal
1599	H. S. Chambers	Drumheller	Burn-Brite Coal
1655	J. Wakaruk and Partners	Newcastle	Cozy Coal
1668	Victor Leonhardt	Drumheller	Lion Coal
1669	Joy Coal Co. Ltd.	Cambria	Sunshine Coal
Edmonton Area			
99	GreatWest Coal Co. Ltd.	Clover Bar	Black Diamond Coal
129	Sundance Mines Ltd.	Cardiff	Suncole
720	Harry Ebert	Calmar	Rudolph Coal
1098	Double "E" Collieries	Namao	"EE" Coal
1266	Edmonton Collieries Ltd.	Namao	Black Gem Coal
1316	Samis Collieries Ltd.	Namao	Samis Coal
1366	Beverly Coal Co. Ltd.	Beverly	Beverly Coal
1419	Pine Creek Collieries	S. Edmonton	Pine Creek Coal
1463	Riverdale Coals Ltd.	Edmonton	Riverdale Coal
1496	G. S. Gwilliam and K. Samis	Namao	Black Beauty Coal
1560	Kost Nimko	Calmar	White Mud Creek Coal
1582	Egg Lake Coal Co. Ltd.	Morinville	Egg Lake Coal
1626	J. B. Starky Coal Co. Ltd.	St. Albert	Star-Key Coal
1627	Beverly Coal Ltd.	Carbondale	Carbondale Coal
1628	Blue Point Mine	S. Edmonton	Blue Point Coal
1632	C. F. MacLachlan	Edmonton	Beaver Hills Coal
1635	Morinville Collieries Ltd.	Morinville	Spitfire Coal
1641	A. Horkulak	Edmonton	Rabbit Hill Coal
1658	Opalinski and Klapstein	Ellerslie	Ellerslie Coal
1684	J. G. Mucha	Edmonton	Bright Service Coal
1696	Adelard Houle	Morinville	Mearn's Coal
1724	Banner Coals Ltd.	Edmonton	New Penn Coal
Gleichen Area			
72	Blackfoot Indians	Gleichen	
1265	Hans Castella and Sons	Standard	Standard Coal
1431	H. Rasmussen and C. H. Fleischer	Rosebud	Consumer's Coal
1521	Wm. McMillan	Rosebud	Supreme of the Valley Coal
Halcourt Area			
651	Baldwin Collieries Ltd.	Grande Prairie	Globe Coal
1704	Michael Romaniuk	Beaverlodge	Burn E.Z. Coal
High Prairie Area			
1722	John Navara	De Bolt	Simonette Coal
Lethbridge Area			
56	A. Razzolini	Magrath	The Baker Coal
738	J. A. S. Wukusich	Lethbridge	Santa-Maria Coal
889	George Rollingson and Sons	Lethbridge	Whoopup Coal
1086	Steve Kocsis and Steve Varga	Lethbridge	Steve's Mine
1263	Lethbridge Collieries Ltd.	Shaughnessy	Cadillac Coal
1464	Lethbridge Collieries Ltd.	Lethbridge	Galt Coal
1581	J. J. Hamilton Coal Co.	Lethbridge	Federal Coal
1685	L. C. McClain	Magrath	M. & M. Coal

Milk River Area			
1301	A. Koshman and J. Martell	Lucky Strike	New Benwell Coal
Mountain Park Area			
693	Cadomin Coal Co. Ltd.	Cadomin	Cadomin Coal
693	Cadomin Coal Co. Ltd.	Cadomin	Rocky Mountain Splint Coal
905	Luscar Coals Ltd.	Luscar	Luscar Coal
1392	Gregg River Collieries Ltd.	Gregg River	Gregg River Coal
Nordegg Area			
256	Brazeau Collieries Ltd.	Nordegg	Brazeau Bituminous Steam Coal
Pakowki Area			
1318	J. R. Johnson and E. Davis	Elkwater	Elkwater Lake Coal
Pekisko Area			
1516	Ideal Coal Ltd.	Priddis	Ideal Coal
Pembina Area			
419	The Alberta Southern Coal Co. Ltd.	Wabamun	Victory Coal
1495	Pembina Collieries Ltd.	Entwistle	Pembina Peerless Coal
1592	Mt. Royal Collieries Ltd.	Seba Beach	Sun Glow Coal
1644	Strawberry Creek Coal Co. Ltd.	Warburg	Strawberry Creek Coal
1645	Lothian Collieries Ltd.	Wabamun	Blue Flame Coal
1652	N. Fry and T. Larson	Seba Beach	Cora Coal
1657	Lidgett and Opheim	Entwistle	O. & L. Coal
1670	Pinter Coals Ltd.	Warburg	Pinter Coal
1687	James Sturms	Genesee	Island View Coal
1690	K. Schon and M. J. Hoover	Edmonton	Tomahawk Coal
1712	F. Fodor and W. Fodor	Warburg	Fodor Coal
1715	S. Giovinazzo	Edmonton	Hi-Vale Coal
Prairie Creek Area			
1296	Dunn and Finlay	Hinton	Yellowhead Coal
1653	Hinton Hard Coal Co. Ltd.	Hinton	Hinton Hard Coal
1714	H. Schnur	Hinton	Industrial Coal
Redcliff Area			
772	Ajax Coal Co.	Medicine Hat	Ajax Coal
Red Deer Area			
1448	Sundre Coal	Sundre	Sundre Coal
Rochester Area			
1686	Marwood S. Alexander	Edmonton	Baptiste Coal
Saunders Area			
388	Bighorn & Saunders Creek Colls. Ltd.	Saunders	Bighorn & Saunders Creek Coal
852	Alexo Coal Co. Ltd.	Alexo	Alexo Coal
852	Alexo Coal Co. Ltd.	Alexo	Acorn Saunders Coal
Sheerness Area			
443	Chinook Coal Co. Ltd.	Sheerness	Sheerness Chinook Coal
1314	John Gaetz	Hanna	Gowan Coulee Coal
1398	T. G. Ironside and A. Glover	Scapa	Ironside Coal
1401	Fred Pahl	Hanna	Eureka Coal
1432	Sheerness Coal Co. Ltd.	Sheerness	Sheebo Coal
1553	J. Masciangelo and Partners	Delia	Blossom Mine Coal
1597	Crystal Mine	Hanna	Crystal Coal
1699	J. I. Stirling and W. J. Friedley	Delia	The Handhills Coal
Taber Area			
228	Omer J. Malo	Taber	White Ash Coal
672	C. R. Cooke	Winnifred	Red-Glo Coal
838	D. McCracken and Goering	Suffield	Sunny South Coal
1334	Continental Coal Corporation Ltd.	Grassy Lake	Alburna Coal
1536	Oliver Coal Mines	Taber	Oliver Senior Coal
1604	The Alberta Southern Coal Co. Ltd.	Taber	Southalta Coal
1705	J. P. Neufeld	Grassy Lake	Neucoal Mines
Tofield Area			
215	Emil Skarin	Dodds	North Star Coal
252	Tofield Coal Co. Ltd.	Tofield	Headlight Coal
1107	Black Nugget Coal Co. Ltd.	Dodds	Hi-Lo Coal
1206	Ryley Coal Co. Ltd.	Ryley	Ryley Coal
1624	C. Binder	Ryley	Ryalta Coal
Westlock Area			
1517	John Melesko	Thorhild	Dandy Coal
1523	Picardville Coal Co. Ltd.	Picardville	Picardville Coal
1562	North Point Coal Co. Ltd.	Thorhild	North Point Coal
Wetaskiwin Area			
1534	Peter Gill	Thorsby	Canyon Creek Coal
Whitecourt Area			
1569	A. Watson	Blue Ridge	Blue Ridge Coal
1681	Edward Hughes	Mayerthorpe	Athabasca River Hard Coal
No Area			
1720	J. A. MacDonald	Grande Prairie	Bald Mountain Coal

PARTICULARS OF OPERATING MINES DURING 1951 BY AREAS

ARDLEY AREA

R. R. Straub—Mine No. 255

Mine Office: Alix, Alberta.
Mine Manager: R. R. Straub.
Mine Surveyor: David Jones.
Foreman: R. R. Straub.
Thickness of Seam: 6 ft.
Thickness of Cover: 24 ft. to 50 ft.
Inclination of Seam: Horizontal.
Form of Opening: Strip Mine.
Location of Mine: S.W. ¼ of 5, Sec. 17, Twp. 38, Rge. 23, W. 4th Mer.
Coal Mining Lease Number: C.P.R.
Truck Mine, and C.N.R. Mine.
Registered Trade Name: Conger Coal.

J. W. Sissons—Mine No. 809

Mine Office: Alix, Alberta.
Mine Manager: R. C. Sissons.
Mine Surveyor: David Jones.
Foreman: R. C. Sissons.
Thickness of Seam: 5 ft.
Thickness of Cover: 45 ft.
Form of Opening: Strip Mine.
Location of Mine: L.S. 3, 4, 5, 6, 15 & 16, Sec. 33, Twp. 38, Rge. 23, W. 4th Mer.
Coal Mining Lease Numbers: C.P.R. 475, 584.
Truck Mine.
Registered Trade Name: Pearl of Furnace Coal.

Karl Schnepf—Mine No. 969

Mine Office: Delburne, Alberta.
Mine Manager: Karl Schnepf.
Mine Surveyor: L. C. Stevens.
Overman: Karl Schnepf.
Thickness of Seam: 4 ft.
Thickness of Cover: 60 ft.
Inclination of Seam: Horizontal.
Form of Opening: Slope. Size of Slope: 5 ft. x 6 ft. Depth of Slope: 90 ft.
Location of Mine: L.S. 14, Sec. 10, Twp. 38, Rge. 22, W. 4th Mer.
Coal Mining Lease Number: C.P.R. 585.
Truck Mine.
Registered Trade Name: Great Bend Coal.

Allyn Mann Construction Co.—Mine No. 1488

Mine Office: Alix, Alberta.
Agent: H. Allyn Mann.
Mine Manager: H. Walper.
Mine Surveyor: David Jones.
Foreman: H. Walper.
Thickness of Seam: 4 ft.
Thickness of Cover: 35 ft.
Inclination of Seam: Horizontal.
Form of Opening: Strip Mine.
Location of Mine: E ½ of L.S. 3 & 4, Sec. 29, Twp. 38, Rge. 23, W. 4th Mer.
Coal Mining Lease Number: S.L. 512.
C.N.R., C.P.R. and Truck Mine.
Registered Trade Name: Eclipse Coal.

Elnora Construction Co. Ltd.—Mine No. 1613

Name of President: Robert Armstrong.
Name of Directors: R. Armstrong, F. V. Armstrong.
Name of Secretary-Treasurer: F. V. Armstrong.
Head Office: Elnora.
Mine Office: Ardley.
Mine Manager: Charles Jones.
Mine Surveyor: David Jones.
Foreman: Charles Jones.
Thickness of Seam: 4 ft.
Thickness of Cover: 30 ft.
Inclination of Seam: Horizontal.
Form of Opening: Strip Mine.
Location of Mine: L.S. 10, Sec. 20, Twp. 38, Rge. 23, W. 4th Mer.
Coal Mining Lease Number: 5484.
Truck Mine.
Registered Trade Name: Armstrong Coal.

D. L. Gordon—Mine No. 1673

Mine Office: Warden, Alberta.
Mine Manager: D. L. Gordon.
Mine Surveyor: David Jones.
Foreman: D. L. Gordon.
Thickness of Seam: 4 ft.
Thickness of Cover: 60 ft.
Inclination of Seam: Horizontal.
Form of Opening: Strip Mine.
Location of Mine: W. & E. ½ L.S. 1 & 2, Sec. 15, Twp. 38, Rge. 22, W. 4th Mer.
Coal Mining Lease Number: C.P.R. 658.
Truck Mine.
Registered Trade Name: Gordon Coal.

John Lynass—Mine No. 1675

Mine Office: Delburne, Alberta.
Mine Manager: John Lynass.
Mine Surveyor: David Jones.
Foreman: John Lynass.
Thickness of Seam: 4 ft.
Thickness of Cover: 30 ft.
Inclination of Seam: Horizontal.
Form of Opening: Strip Mine.
Location of Mine: L.S. 13, Sec. 8, Twp. 38, Rge. 23, W. 4th Mer.
Coal Mining Lease Number: H.B.C. 127.
Truck Mine.
Registered Trade Name: Glenniffer Coal.

BIG VALLEY AREA

Big Valley Collieries (Alberta) Ltd.—Mine No. 864

Authorized Capital: $50,000.00.
Name of President: Arthur A. Voice.
Names of Directors: Arthur A. Voice, Tine S. Voice.
Name of Secretary-Treasurer: Tine S. Voice.
Head Office: 10263-112 Street, Edmonton, Alberta.
Mine Office: Big Valley, Alberta.
Agent: Arthur A. Voice.
Mine Manager: Allan Hamilton.
Mine Surveyor: Allan Hamilton.
Foreman: Eldon Bergeson.
Thickness of Seam: 8 ft.
Thickness of Cover: 20 ft. to 60 ft.
Inclination of Seam: Horizontal.
Form of Opening: Strip Mine.
Location of Mine: N.W. ¼ of Sec. 36, Twp. 35, Rge. 20, W. 4th Mer.
Coal Mining Lease Number: 5834.
C.N.R. and Truck Mine.
Registered Trade Name: Big Valley Coal.

Robert Campkin & Sons—Mine No. 1661

Mine Office: Lousana, Alberta.
Mine Manager: B. Campkin.
Mine Surveyor: David Jones.
Overman: B. Campkin.
Thickness of Seam: 5 ft.
Thickness of Cover: 35 ft. to 50 ft.
Inclination of Seam: Horizontal.
Form of Opening: Slope. Size of Slope: 6 ft. Depth of Slope: 20 ft.
Location of Mine: L.S. 7 & 12, Sec. 13, Twp. 36, Rge. 22, W. 4th Mer.
Coal Mining Lease Number: C.P.R. 691.
Truck Mine.
Registered Trade Name: The Campkin Mine.

George L. Grant—Mine No. 1708

Mine Office: Fenn, Alberta.
Mine Manager: R. C. Grant.
Foreman: R. C. Grant.
Mine Surveyor: David Jones.
Thickness of Seam: 3 ft.
Thickness of Cover: 14 ft.
Form of Opening: Strip Mine.
Location of Mine: L.S. 1, Sec. 9, Twp. 35, Rge. 20, W. 4th Mer.
Coal Mining Lease Number: C.P.R. 700.
Truck Mine.
Registered Trade Name: Grant Coal.

BROOKS AREA

Kleenbirn Collieries Ltd.—Mine No. 1404

Authorized Capital: $250,000.00.
Name of President: J. Gordon Westgate.
Name of Director: R. M. Balfour.
Name of Secretary-Treasurer: R. M. Balfour.
Head Office: Eyremore, Alberta.
Mine Office: Eyremore, Alberta.
Mine Manager: George A. Wiggan.
Mine Surveyor: J. F. Hamilton.
Foreman: W. E. Herrick.
Blaster: George R. Nixon.
Thickness of Seam: 5 ft. to 7 ft.
Thickness of Cover: 45 ft.
Inclination of Seam: Horizontal.
Form of Opening: Strip Mine.
Location of Mine: Pts. of Twp. 17, Rge. 17, W 4th Mer.
Coal Mining Lease Number: C.P.R. 683.
Mine Located on C.P.R.
Registered Trade Name: Birnwel Coal.

Cragg, Cragg and Oliver—Mine No. 1672

Authorized Capital: $3,800.00.
Mine Office: Rolling Hills, Alberta.
Mine Manager: William M. Cragg.
Mine Surveyor: E. Ashburner.
Thickness of Seam: 7 ft.
Inclination of Seam: Horizontal.
Form of Opening: Strip Mine.
Location of Mine: S.E. ¼ of Sec. 3, Twp. 14, Rge. 13, W. 4th Mer.
Coal Mining Lease Number: C.P.R. 706.
Truck Mine.
Registered Trade Name: Gold Fleck Coal.

CAMROSE AREA

Joe Proskow—Mine No. 241

Mine Office: Dinant, Alberta.
Mine Manager: Joe Proskow.
Mine Surveyor: David Jones.
Foreman: Joe Proskow.
Thickness of Seam: 6½ ft.
Thickness of Cover: 18 ft. to 25 ft.
Inclination of Seam: Horizontal.
Form of Opening: Strip Mine.
Location of Mine: L.S. 4, Sec. 18, Twp. 48, Rge. 19, W. 4th Mer.
Coal Mining Lease Number: M.S. 995.
Truck and Team Mine.
Registered Trade Name: Proskow Coal.

S. H. Burnstad—Mine No. 724

Mine Office: Ohaton, Alberta.
Mine Manager: S. H. Burnstad.
Mine Surveyor: David Jones.
Foreman: S. H. Burnstad.
Blaster: S. H. Burnstad.
Thickness of Seam: 5 ft.
Thickness of Cover: 16 ft.
Inclination of Seam: Horizontal.
Form of Opening: Strip Mine.
Location of Mine: N. & S. ½ L.S. 3 & 6, Sec. 14, Twp. 48, Rge. 18, W. 4th Mer.
Coal Mining Lease Number: 5525.
Truck Mine.
Registered Trade Name: Burnstad's Coal.

A. A. Campbell & C. A. Fergstad—Mine No. 1055

Mine Office: Round Hill, Alberta.
Mine Manager: C. Fergstad, Sr.
Mine Surveyor: David Jones.
Foreman: C. Fergstad, Sr.
Thickness of Seam: 6 ft.
Thickness of Cover: 16 ft.
Inclination of Seam: Horizontal.
Form of Opening: Strip Mine.
Location of Mine: Pts. of 7, 8 & 10, Sec. 30, Twp. 48, Rge. 18, W. 4th Mer.
Coal Mining Lease Number: 5917.
Truck Mine.
Registered Trade Name: Eskimo Coal.

George Shute & Partners—Mine No. 1524

Mine Office: Dinant, Alberta.
Mine Manager: George Shute.
Mine Surveyor: David Jones.
Thickness of Seam: 5½ ft.
Thickness of Cover: 18 ft.
Inclination of Seam: Horizontal.
Form of Opening: Strip Mine.
Location of Mine: L.S. 8 & 9, Sec. 7, Twp. 48, Rge. 19, W. 4th Mer.
Coal Mining Lease Number: C.P.R. 546.
Truck Mine.
Registered Trade Name: Demay Coal.

Alberta Coal Co. Ltd.—Mine No. 1603

Authorized Capital: $200,000.00
Name of President: D. Twomey, Jr.
Name of Secretary: A. E. Burgess.
Mine Office: Camrose, Alberta.
Agent: D. Twomey, Jr.
Mine Manager: R. B. Munn.
Mine Surveyor: David Jones.
Foreman: J. Daintith.
Blaster: Ollie Anderson.
Thickness of Seam: 3½ ft. to 5 ft.
Thickness of Cover: 25 ft. to 40 ft.
Inclination of Seam: Horizontal.
Form of Opening: Strip Mine.
Location of Mine: L.S. 2, 6, 7, 10, 11 & 15, Sec. 29, Twp. 46, Rge. 19, W. 4th Mer.
Coal Mining Lease Numbers: S.L. 529, C.P.R. 602.
C.N.R., C.P.R., and Truck Mine.
Registered Trade Name: Camrose Coal.

CARBON AREA

Alfred Fox—Mine No. 53

Authorized Capital: $12,000.00.
Mine Office: Carbon, Alberta.
Mine Manager: Alfred Fox.
Mine Surveyor: David Jones.
Overman: Alfred Fox.
Thickness of Seam: 3½ ft.
Thickness of Cover: 185 ft.
Inclination of Seam: Horizontal.
Form of Opening: Drift.
Location of Mine: S.W. ¼ of L.S. 3, Sec. 14, Twp. 29, Rge. 23, W. 4th Mer.
Coal Mining Lease Number: S.L. 516.
Truck Mine.
Registered Trade Name: Carbon Sunrise Coal.

A. A. McArthur—Mine No. 194

Authorized Capital: $500,000.00.
Name of President: A. A. McArthur.
Mine Office: Box 47, Carbon, Alberta.
Mine Manager: A. A. McArthur.
Mine Surveyor: W. E. G. Hall.
Thickness of Seam: 4½ ft.
Thickness of Cover: 20 ft.
Inclination of Seam: Horizontal.
Form of Opening: Strip Mine.
Location of Mine: N.E. ¼ of Sec. 4, Twp. 31, Rge. 22, W. 4th Mer.
Coal Mining Lease Number: S.L. 224.
C.P.R. and Truck Mine.
Registered Trade Name: Kneehill Coal.

Inland Coal Co. Ltd.—Mine No. 384

Authorized Capital: $20,000.00.
Name of President: W. J. Nesbitt.
Names of Directors: W. J. Nesbitt, R. B. Watson.
Name of Secretary-Treasurer: R. B. Watson.
Head Office: 804 McLeod Building, Edmonton, Alberta.
Mine Office: Three Hills, Alberta.
Agent: W. J. Nesbitt.
Mine Manager: B. Nugent.
Mine Surveyor: David Jones.
Overman: B. Nugent.
Fireboss: P. George.
Thickness of Seam: 5 ft.
Thickness of Cover: 165 ft.
Inclination of Seam: Horizontal.
Form of Opening: Shaft. Size of Shaft: 8 ft. x 12 ft. Depth of Shaft: 168 ft.
Location of Mine: L.S. 16, Sec. 26, Twp. 31, Rge. 24, W. 4th Mer.
Coal Mining Lease Number: M.S. 635.
C.N.R., C.P.R., and Truck Mine.
Registered Trade Name: Kneehill Valley Coal.

East Trochu Coal Mine—Mine No. 710

Name of Secretary: J. A. Patterson.
Name of Treasurer: L. G. Yard.
Mine Office: Trochu, Alberta.
Agent: L. G. Yard.
Mine Manager: L. G. Yard.
Mine Surveyor: David Jones.
Overman: L. G. Yard.
Thickness of Seam: 6 ft.
Thickness of Cover: 80 ft.
Inclination of Seam: Horizontal.
Form of Opening: Drift.
Location of Mine: L.S. 9, 10, 15 & 16, Sec. 14, Twp. 33, Rge. 23, W. 4th Mer.
Coal Mining Lease Number: 5320.
Truck Mine.
Registered Trade Name: Troalta Coal.

Ben Pickering—Mine No. 817

Mine Office: Ghost Pine Creek, Alberta.
Mine Manager: Ben Pickering.
Mine Surveyor: David Jones.
Overman: Ben Pickering.
Foreman: Ben Pickering.
Thickness of Seam: 5½ ft.
Thickness of Cover: 40 ft.
Inclination of Seam: Horizontal.
Form of Opening: Slope and Strip Mine. Size of Slope: 6 ft. x 6 ft. Depth of Slope: 100 ft.
Location of Mine: S. ½ of L.S. 1 & 2, Sec. 6, Twp. 31, Rge. 21, W. 4th Mer.
Coal Mining Lease Number: 5510.
Truck Mine.
Registered Trade Name: Orkney Coal.

Eric Reissig—Mine No. 921

Mine Office: Trochu, Alberta.
Mine Manager: E. Reissig.
Mine Surveyor: David Jones.
Overman: E. Reissig.
Fireboss: E. Reissig.
Thickness of Seam: 5½ ft.
Thickness of Cover: 85 ft.
Inclination of Seam: Horizontal.
Form of Opening: Drift.
Location of Mine: L.S. 15 & 16, Sec. 14, Twp. 33, Rge. 23, W. 4th Mer.
Coal Mining Lease Number: 5464.
Truck Mine.
Registered Trade Name: Meadow Bank Coal.

East Carbon Coal Co. Ltd.—Mine No. 1060

Name of President: Ernest Fox.
Names of Directors: E. Fox, B. Fox, W. Fox, Mrs. Ben Lowther.
Mine Office: Carbon, Alberta.
Mine Manager: Ben Fox.
Mine Surveyor: David Jones.
Overman: Ben Fox.
Thickness of Seam: 4 ft.
Thickness of Cover: 200 ft.
Inclination of Seam: Horizontal.
Form of Opening: Slope. Size of Slope: 6 ft. x 8 ft. Depth of Slope: 100 ft.
Location of Mine: L.S. 12 & 13, Sec. 7, Twp. 29, Rge. 22, W. 4th Mer.
Coal Mining Lease Number: C.L.S. 255.
C.P.R. and Truck Mine.
Registered Trade Name: Reliable Coal.

C. C. Campbell—Mine No. 1226

Mine Office: Trochu, Alberta.
Mine Manager: C. C. Campbell.
Mine Surveyor: L. C. Stevens.
Overman: C. C. Campbell.
Thickness of Seam: 5½ ft.
Thickness of Cover: 100 ft.
Inclination of Seam: Horizontal.
Form of Opening: Drift.
Location of Mine: W ½ of L.S. 9, Sec. 29, Twp. 33, Rge. 22, W. 4th Mer.
Coal Mining Lease Number: S.L. 278.
Truck Mine.
Registered Trade Name: Campbell Coal.

H. J. Halbert & F. Beierle—Mine No. 1283

Mine Office: Trochu, Alberta.
Mine Manager: H. J. Halbert.
Mine Surveyor: David Jones.
Overman: H. J. Halbert.
Thickness of Seam: 5 ft.
Thickness of Cover: 96 ft.
Inclination of Seam: Horizontal.
Form of Opening: Slope. Size of Slope: 4 ft. x 4 ft. Depth of Slope: 90 ft.
Location of Mine: S.E. ¼ of L.S. 9, Sec. 14, Twp. 33, Rge. 23, W. 4th Mer.
Coal Mining Lease Number: 5173.
Truck Mine.
Registered Trade Name: H. B. Coal.

Balogh Brothers—Mine No. 1359

Mine Office: Carbon, Alberta.
Mine Manager: A. Balogh.
Mine Surveyor: David Jones.
Overman: A. Balogh.
Thickness of Seam: 4 ft.
Thickness of Cover: 180 ft.
Inclination of Seam: Horizontal.
Form of Opening: Slope. Size of Slope: 5 ft. x 8 ft. Depth of Slope: 125 ft.
Location of Mine: L.S. 16, Sec. 12, Twp. 29, Rge. 23, W. 4th Mer.
Coal Mining Lease Number: M.S. 234.
Truck Mine.
Registered Trade Name: Arctic Coal.

Nuttal & Davidson—Mine No. 1499

Mine Office: Three Hills.
Mine Manager: F. Nuttal.
Mine Surveyor: David Jones.
Foremen: D. W. Davidson, W. Pastorchuk, F. Nuttal.
Thickness of Seam: 4 ft.
Thickness of Cover: 30 ft.
Inclination of Seam: Horizontal.
Form of Opening: Strip Mine.
Location of Mine: L.S. 1 & 2, Sec. 9, Twp. 31, Rge. 22, W. 4th Mer.
Coal Mining Lease Number: 5257.
Truck Mine.
Registered Trade Name: Fire King Coal.

Alvin Notland—Mine No. 1719

Mine Office: Morrin, Alberta.
Mine Manager: Alvin Notland.
Foreman: Peder Notland.

Thickness of Seam: 2½ ft.
Thickness of Cover: 7 ft.
Inclination of Seam: Horizontal.
Form of Opening: Strip Mine.
Location of Mine: L.S. 16, Sec. 21, Twp. 31, Rge. 21, W. 4th Mer.
Coal Mining Lease Number: 5968.
Registered Trade Name: Notland Coal.

CASCADE AREA

The Canmore Mines Ltd.—Mine No. 2

Authorized Capital: $1,000,000.00.
Name of President: Edmund Hayes.
Name of Directors: E. Hayes, B. F. Crane, J. E. A. Macleod, A. J. Macmillan, W. Wilson, G. F. Jewett, L. S. Headley, R. Morris.
Name of Secretary: J. E. A. Macleod.
Name of Treasurer: Louis S. Headley.
Mine Office: Canmore, Alberta.
General Manager: William Wilson.
Mine Manager: V. Mrokwia.
Mine Surveyor: W. J. Riva.
Overmen: J. Brown, A. Fox, S. Louhela.
Firebosses: W. Bell, A. Baroni, M. Carmichael, A. B. Crawford, J. Crawford, C. Foster, J. James, A. Kowal, A. Knudson, H. Musgrove, J. Miskow, H. Paavola, J. Riva, B. Rogers, H. Niskanen, A. Shellian.
Thickness of Seams: 6 ft., 8 ft. and 10 ft.
Thickness of Cover: 0 to 2,000 ft.
Inclination of Seam: 10 to 35 degrees.
Form of Opening: Slope. Size of Slope: 16 ft. x 8 ft. Depth of Slope: Rock Tunnel: 1,000 ft. No. 4 Seam: 2,400 ft. No. 5 Seam: 1,100 ft.
Location of Mine: N.E. Pt. of L.S. 1, Sec. 29, Twp. 24, Rge. 10, W. 5th Mer.
Coal Mining Lease Numbers: S.L. 130, 131.
C.P.R. and Truck Mine.
Registered Trade Name: Canmore Coal.

Frank Wheatley & Son—Mine No. 1244

Authorized Capital: $50,000.00.
Mine Office: Box 341, Banff, Alberta.
Mine Manager: F. M. Wheatley.
Mine Surveyor: L. C. Stevens.
Fireboss: J. W. Wheatley.
Thickness of Seam: 8 ft.
Thickness of Cover: 300 ft.
Inclination of Seam: 40 degrees.
Form of Opening: Slope. Size of Slope: 6 ft. x 8 ft. Depth of Slope: 300 ft.
Location of Mine: L.S. 12, Sec. 4, Twp. 26, Rge. 11, W. 5th Mer.
Coal Mining Lease Number: C.L.S. 9.
Truck Mine.
Registered Trade Name: Wheatley Brothers Coal.

Kananaskis Exploration & Development Co.—Mine No. 1667

Head Office: Room 1720—25 King St., West, Toronto 1.
Mine Office: 231-8th Avenue West, Calgary, Alberta.
Name of President: J. A. Boyd.
Name of Secretary: H. S. Gausby.
Name of Treasurer: H. S. Gausby.
Mine Manager: Z. D'Amico.
Mine Surveyor: W. E. G. Hall.
Overman: H. Evans.
Firebosses: R. Clack, A. Johnson, J. Crawford.
Thickness of Seam: 18 ft.
Inclination of Seam: 25 degrees.
Form of Opening: Slope.
Location of Mine: Sec. 3, Twp. 23, Rge. 9, W. 5th Mer.
Coal Mining Lease Number: 5652.
C.P.R. and Truck Mine.
Registered Trade Name: Cascade Coal.

CASTOR AREA

J. Tyrlik and S. Musat—Mine No. 251

Mine Office: Heisler.
Mine Manager: J. Tyrlik.
Mine Surveyor: David Jones.
Overman: J. Tyrlik.
Thickness of Seam: 4½ ft.
Thickness of Cover: 62 ft.
Inclination of Seam: Horizontal.
Form of Opening: Slope. Size of Slope: 6 ft. x 6 ft. Depth of Slope: 150 ft.
Location of Mine: L.S. 9, Sec. 28, Twp. 24, Rge. 17, W. 4th Mer.
Coal Mining Lease Number: 5530.
C.N.R. Mine.
Registered Trade Name: Diamond G. Coal.

James Chiswick—Mine No. 291

Mine Office: Gadsby, Alberta.
Mine Manager: James Chiswick.
Mine Surveyor: David Jones.
Foreman: James Chiswick.
Thickness of Seam: 4½ ft.
Thickness of Cover: 25 ft.
Inclination of Seam: Horizontal.
Form of Opening: Strip Mine.
Location of Mine: N. & S. ½ of L.S. 11 & 6, Sec. 28, Twp. 39, Rge. 16, W. 4th Mer.
Coal Mining Lease Number: 5093.
Truck Mine.
Registered Trade Name: Sunset Coal.

A. J. James and J. R. James—Mine No. 447

Authorized Capital: $4,000.00.
Mine Office: Forestburg. Alberta.
Mine Surveyor: David Jones.
Mine Manager: J. R. James.
Overman: A. J. James.
Thickness of Seam: 8 ft.
Thickness of Cover: 26 ft.
Inclination of Seam: Horizontal.
Form of Opening: Shaft. Size of Shaft: 5 ft. x 6 ft. Depth of Shaft: 38 ft.
Location of Mine: L.S. 13, Sec. 28, Twp. 40, Rge. 15, W. 4th Mer.
Coal Mining Lease Number: 5416.
C.N.R. and Truck Mine.
Registered Trade Name: Ever Ready Coal.

Komperdo & Partners—Mine No. 615

Mine Office: Heisler, Alberta.
Mine Manager: John Komperdo.
Mine Surveyor: David Jones.
Overman: John Komperdo.
Thickness of Seam: 5 ft.
Thickness of Cover: 80 ft.
Inclination of Seam: Horizontal.
Form of Opening: Slope. Size of Slope: 7 ft. x 7 ft. Depth of Slope: 70 ft.
Location of Mine: L.S. 13, Sec. 22, Twp. 42, Rge. 17, W. 4th Mer.
Coal Mining Lease Number: 5429.
Mine Located on C.N.R. and C.P.R.
Registered Trade Name: Riverside Coal.

O. V. Remillard—Mine No. 902

Mine Office: Castor, Alberta.
Mine Manager: O. V. Remillard.
Mine Surveyor: David Jones.
Overman: O. V. Remillard.
Thickness of Seam: 5 ft.
Thickness of Cover: 65 ft.
Inclination of Seam: Horizontal.
Form of Opening: Slope. Size of Slope: 6 ft. x 7 ft. Depth of Slope: 127 ft.
Location of Mine: L.S. 15 & 16, Sec. 33, Twp. 37, Rge. 14, W. 4th Mer.
Coal Mining Lease Number: C.P.R. 186.
C.P.R. and Truck Mine.
Registered Trade Name: Remillard Coal.

Alberta Coal Co Ltd.—Mine No. 1046

Mine Office: Halkirk, Alberta.
Mine Manager: W. J. Blackstock.
Mine Surveyor: David Jones.
Foreman: W. J. Blackstock.
Thickness of Seam: 8 ft.
Thickness of Cover: 35 ft.
Inclination of Seam: Horizontal.
Form of Opening: Strip Mine.
Location of Mine: L.S. 6, 7 & 8, Sec. 20, Twp. 40, Rge. 15, W. 4th Mer.
Coal Mining Lease Number: 5433.
C.P.R. and Truck Mine.
Registered Trade Name: Cordel Coal.

Charles Strader—Mine No. 1062

Mine Office: Halkirk, Alberta.
Mine Manager: James Strader.
Mine Surveyor: David Jones.
Overman: James Strader.
Thickness of Seam: 5 ft.
Thickness of Cover: 60 ft.
Inclination of Seam: Horizontal.
Form of Opening: Drift.
Location of Mine: L.S. 4, Sec. 17, Twp. 39, Rge. 15, W. 4th Mer.
Coal Mining Lease Number: C.P.R. 41.
Truck Mine.
Registered Trade Name: Esperanze Coal.

J. H. Ainsworth—Mine No. 1232

Mine Office: Halkirk, Alberta.
Mine Manager: J. H. Ainsworth.
Mine Surveyor: David Jones.
Overman: J. H. Ainsworth.
Thickness of Seam: 6 ft.
Thickness of Cover: 50 ft.
Inclination of Seam: Horizontal.
Form of Opening: Drift.
Location of Mine: L.S. 13, Sec. 25, Twp. 40, Rge. 16, W. 4th Mer.
Coal Mining Lease Number: C.P.R. 478.
Truck Mine.
Registered Trade Name: Ainsworth Coal.

Daniel Dryden—Mine No. 1237

Mine Office: Halkirk, Alberta.
Mine Manager: Daniel Dryden.
Mine Surveyor: David Jones.
Overman: Daniel Dryden.
Thickness of Seam: 6 ft.
Thickness of Cover: 90 ft.
Inclination of Seam: Horizontal.
Form of Opening: Drift.
Location of Mine: L.S. 11, Sec. 8, Twp. 39, Rge. 15, W. 4th Mer.
Coal Mining Lease Number: H.B.C.
Truck Mine.
Registered Trade Name: Ruby Glow Coal.

B. J. Gerla & W. Runge—Mine No. 1248

Authorized Capital: $15,000.00.
Mine Office: Donalda, Alberta.
Mine Manager: B. J. Gerla.
Mine Surveyor: David Jones.
Overman: B. J. Gerla.
Thickness of Seam: 5 ft.
Thickness of Cover: 110 ft.
Inclination of Seam: Horizontal.
Form of Opening: Slope. Size of Slope: 6 ft. x 6 ft. Depth of Slope: 80 ft.
Location of Mine: L.S. 10 & 11, Sec. 29, Twp. 41, Rge. 17, W. 4th Mer.
Coal Mining Lease Number: S.L. 534.
C.N.R. and Truck Mine.
Registered Trade Name: Success Coal.

Joseph Haden—Mine No. 1343

Mine Office: Castor, Alberta.
Mine Manager: Joseph Haden.
Mine Surveyor: David Jones.
Foreman: Joseph Hayden.
Thickness of Seam: 3½ ft.
Form of Opening: Strip Mine.
Location of Mine: L.S. 3 & 6, Sec. 3, Twp. 38, Rge. 14, W. 4th Mer.
Coal Mining Lease Number: C.P.R. 561.
Registered Trade Name: Haden's Strip Mine Coal.

James Easton—Mine No. 1417

Mine Office: Castor, Alberta.
Mine Manager: J. Easton.
Mine Surveyor: D. Jones.
Overman: J. Easton.
Thickness of Seam: 5 ft.
Thickness of Cover: 40 ft.
Inclination of Seam: Horizontal.
Form of Opening: Slope. Size of Slope: 6 ft. x 6 ft. Depth of Slope: 100 ft.
Location of Mine: L.S. 14, Sec. 34, Twp. 37, Rge. 14, W. 4th Mer.
Coal Mining Lease Number: 5013.
Truck Mine.
Registered Trade Name: Burn-Rite Coal.

Thomas Mitchinson—Mine No. 1435

Mine Office: Donalda, Alberta.
Mine Manager: Thomas Mitchinson.
Mine Surveyor: David Jones.
Overman: Thomas Mitchinson.
Thickness of Seam: 4½ ft.
Thickness of Cover: 75 ft.
Inclination of Seam: Horizontal.
Form of Opening: Slope. Size of Slope: 6 ft. x 6 ft. Depth of Slope: 30 ft.
Location of Mine: N. & S. ½ of L.S. 6 & 11, Sec. 2, Twp. 44, Rge. 19, W. 4th Mer.
Coal Mining Lease Number: 5122.
Truck Mine.
Registered Trade Name: Rosebush Coal.

Leonard Buckle—Mine No. 1441

Mine Office: Donalda, Alberta.
Mine Manager: L. Buckle.
Mine Surveyor: David Jones.
Overman: L. Buckle.
Thickness of Seam: 10 ft.
Thickness of Cover: 130 ft.
Inclination of Seam: Horizontal.
Form of Opening: Drift.
Location of Mine: L.S. 5, 12 & 13, Sec. 16, Twp. 42, Rge. 17, W. 4th Mer.
Coal Mining Lease Number: 5132.
Truck Mine.
Registered Trade Name: Black Emerald Coal.

William Jones Sr.—Mine No. 1572

Mine Office: Donalda, Alberta.
Mine Manager: William Jones.
Mine Surveyor: David Jones.
Overman: William Jones.
Thickness of Seam: 5 ft.
Thickness of Cover: 100 ft.
Inclination of Seam: Horizontal.
Form of Opening: Drift.
Location of Mine: N. & S. ½ of L.S. 4 & 5, Sec. 28, Twp. 41, Rge. 17, W. 4th Mer.
Coal Mining Lease Number: 5325.
Truck Mine.
Registered Trade Name: Meeting Creek Coal.

Forestburg Collieries Ltd.—Mine No. 1578

Authorized Capital: $20,000.00.
Name of President: Mayne Reid, K.C.
Names of Directors: Mayne Reid, K.C., Robert M. Jenkinson; William O. Parlee.
Name of Secretary-Treasurer: Robert M. Jenkinson.
Head Office: 410 Tegler Building, Edmonton, Alberta.
Mine Office: Forestburg, Alberta.

Agent: John A. Stuart.
Mine Manager: Homer F. Bish.
Mine Surveyor: D. F. MacKinnon.
Foreman: Walter Bish.
Blaster: Harold Jackson.
Thickness of Seam: 6 ft.
Thickness of Cover: 35 ft.
Inclination of Seam: Horizontal.
Form of Opening: Strip Mine.
Location of Mine: L.S. 15 & 16, Sec. 36, Twp. 40, Rge. 16, W. 4th Mer.
Coal Mining Lease Numbers: 5365, 5674.
C.N.R. and Truck Mine.
Registered Trade Name: Diplomat Coal.

J. J. Mills—Mine No. 1587

Mine Office: Heisler, Alberta.
Agent: J. J. Mills.
Mine Manager: J. R. Mills.
Mine Surveyor: David Jones.
Overman: J. R. Mills.
Thickness of Seam: 6 ft.
Thickness of Cover: 90 ft.
Form of Opening: Slope. Size of Slope: 6 ft. x 7 ft. Depth of Slope: 75 ft.
Location of Mine: S.W. & S.E. ¼ of L.S. 11 & 12, Sec. 22, Twp. 42, Rge. 17, W. 4th Mer.
Coal Mining Lease Number: 5425.
C.N.R. and Truck Mine.
Registered Trade Name: Eagle Coal.

Stettler Coal Co.—Mine No. 1614

Authorized Capital: $150,000.00.
Name of President: M. H. Neilson.
Names of Directors: J. A. Milne & G. M. Milne.
Name of Secretary-Treasurer: J. A. Milne.
Mine Office: Stettler, Alberta.
Mine Manager: M. H. Neilson.
Mine Surveyor: David Jones.
Foreman: J. J. McDevitt.
Thickness of Seam: 8 ft.
Thickness of Cover: 50 ft.
Inclination of Seam: Horizontal.
Form of Opening: Strip Mine.
Location of Mine: L.S. 16, Sec. 26, Twp. 40, Rge. 16, W. 4th Mer.
Coal Mining Lease Number: 2900.
C.P.R. and Truck Mine.
Registered Trade Name: All-Fire Coal.

F. N. Wiltse—Mine No. 1634

Mine Office: Halkirk, Alberta.
Mine Manager: F. N. Wiltse.
Mine Surveyor: David Jones.
Foreman: F. N. Wiltse.
Thickness of Seam: 6 ft.
Thickness of Cover: 34 ft.
Inclination of Seam: Horizontal.
Form of Opening: Strip Mine.
Location of Mine: W. ½ of L.S. 11, Sec. 32, Twp. 39, Rge. 15, W. 4th Mer.
Coal Mining Lease Number: 5564.
C.P.R. and Truck Mine.
Registered Trade Name: Canyon Mine Coal.

N. MacPherson & C. P. Kroetsch—Mine No. 1689

Mine Office: Heisler, Alberta.
Mine Manager: N. MacPherson.
Mine Surveyor: David Jones.
Overman: N. MacPherson.
Thickness of Seam: 7 ft.
Thickness of Cover: 80 ft.
Inclination of Seam: Horizontal.
Form of Opening: Slope. Size of Slope: 6 ft. x 8 ft. Depth of Slope: 15 ft.
Location of Mine: L.S. 8, Sec. 21, Twp. 42, Rge. 17, W. 4th Mer.
Coal Mining Lease Number: C.P.R. 685.
C.N.R. and Truck Mine.
Registered Trade Name: Black Jade Coal.

A. J. Shannon & J. Lang—Mine No. 1691

Mine Office: Halkirk, Alberta.
Mine Manager: John Lang.
Mine Surveyor: David Jones.
Foreman: John Lang.
Thickness of Seam: 4½ ft.
Thickness of Cover: 17 ft.
Inclination of Seam: Horizontal.
Form of Opening: Strip Mine.
Location of Mine: Pts. of L.S. 11 & 12, Sec. 19, Twp. 40, Rge. 15, W. 4th Mer.
Coal Mining Lease Numbers: C.P.R. 673, 680.
Truck Mine.
Registered Trade Name: S. and L. Coal.

Michael R. Muyres & Sons—Mine No. 1697

Mine Office: Forestburg, Alberta.
Mine Manager: R. Muyres.
Mine Surveyor: David Jones.
Overman: R. Muyres.
Thickness of Seam: 6 ft.
Thickness of Cover: 27 ft.
Inclination of Seam: Horizontal.
Form of Opening: Shaft. Size of Shaft: 5 ft. x 6 ft. Depth of Shaft: 27 ft.
Location of Mine: L.S. 7 & 10, Sec. 32, Twp. 40, Rge. 15, W. 4th Mer.
Coal Mining Lease Number: 5751.
Truck Mine.
Registered Trade Name: Muyres Coal.

Dolanz, Dolanz and Strickland—Mine No. 1702

Authorized Capital: $20,000.00.
Mine Office: Heisler, Alberta.
Mine Manager: T. Strickland.
Mine Surveyor: David Jones.
Overman: E. Dolanz.
Fireboss: E. Dolanz.
Thickness of Seam: 12 ft.
Thickness of Cover: 80 ft.
Inclination of Seam: Horizontal.
Form of Opening: Slope. Size of Slope: 6 ft. x 8 ft. Depth of Slope: 130 ft.
Location of Mine: L.S. 3 & 4, Sec. 27, Twp. 42, Rge. 17, W. 4th Mer.
Coal Mining Lease Number: C.P.R. 692.
C.N.R. and Truck Mine.
Registered Trade Name: Palace Coal.

Wisla Brothers—Mine No. 1713

Mine Office: Rosalind, Alberta.
Mine Manager: M. Wisla.
Mine Surveyor: David Jones.
Overman: M. Wisla.
Thickness of Seam: 3 ft.
Thickness of Cover: 50 ft.
Inclination of Seam: Horizontal.
Form of Opening: Slope. Size of Slope: 6 ft. x 7 ft. Depth of Slope: 60 ft.
Location of Mine: L.S. 1 & 2, Sec. 8, Twp. 43, Rge. 17, W. 4th Mer.
Coal Mining Lease Number: H.B.C. 152.
Truck Mine.
Registered Trade Name: Rosalind Coal.

W. A. Jones—Mine No. 1718

Mine Office: Rosalind, Alberta.
Mine Manager: W. A. Jones.
Mine Surveyor: David Jones.
Foreman: W. A. Jones.
Thickness of Seam: 10 ft.
Thickness of Cover: 50 ft.
Inclination of Seam: Horizontal.
Form of Opening: Strip Mine.
Location of Mine: L.S. 9, 10, 15 & 16, Sec. 29, Twp. 42, Rge. 17, W. 4th Mer.
Coal Mining Lease Number: 5969.
Truck Mine.
Registered Trade Name: Centennial Coal.

CHAMPION AREA

George Rhodes—Mine No. 136

Authorized Capital: $9,000.00.
Mine Office: Champion, Alberta.
Mine Manager: Cecil Rhodes.
Mine Surveyor: J. F. Hamilton.
Overman: Cecil E. Rhodes.
Thickness of Seam: 3 ft.
Thickness of Cover: 90 ft.
Inclination of Seam: Horizontal.
Form of Opening: Slope. Size of Slope: 5 ft. x 6 ft. Depth of Slope: 180 ft.
Location of Mine: L.S. 7, Sec. 8, Twp. 15, Rge. 22, W. 4th Mer.
Coal Mining Lease Number: H.B.C.
Truck Mine.
Registered Trade Name: Therriault Coal.

Carlo Travaglia—Mine No. 1137

Mine Office: Champion, Alberta.
Mine Manager: Carlo Travaglia.
Mine Surveyor: J. F. Hamilton.
Overman: Robert R. Brown.
Thickness of Seam: 4 ft.
Thickness of Cover: 75 ft.
Inclination of Seam: Horizontal.
Form of Opening: Slope. Size of Slope: 4½ ft. x 5 ft. Depth of Slope: 132 ft.
Location of Mine: W. ¾ of L.S. 2 & 3, Sec. 4, Twp. 16, Rge. 23, W. 4th Mer.
Coal Mining Lease Numbers: 5523, 5738.
Truck Mine.
Registered Trade Name: Smith Coal.

P. Fontana & Sons—Mine No. 1509

Mine Office: Champion, Alberta.
Mine Manager: Peter Fontana.
Mine Surveyor: J. F. Hamilton.
Overman: Peter Fontana.
Thickness of Seam: 4 ft.
Thickness of Cover: 65 ft.
Inclination of Seam: 26 degrees.
Form of Opening: Slope. Size of Slope: 6 ft. x 6 ft. Depth of Slope: 240 ft.
Location of Mine: L.S. 15, Sec. 33, Twp. 15, Rge. 23, W. 4th Mer.
Coal Mining Lease Number: 5290.
Truck Mine.
Registered Trade Name: Champion Coal.

Mike Popovich—Mine No. 1565

Mine Office: Champion, Alberta.
Mine Manager: Mike Popovich.
Mine Surveyor: J. F. Hamilton.
Overman: Mike Popovich.
Thickness of Seam: 3½ ft.
Thickness of Cover: 52 ft.
Inclination of Seam: Horizontal.
Form of Opening: Slope. Size of Slope: 5 ft. x 6 ft. Depth of Slope 125 ft.
Location of Mine: L.S. 9, Sec. 8, Twp. 16, Rge. 23, W. 4th Mer.
Coal Mining Lease Number: H.B.C.
Truck Mine.
Registered Trade Name: Ellis Coal.

Wm. Russell—Mine No. 1717

Mine Office Carmangay, Alberta.
Mine Manager: E. Zoback.
Overman: E. Zoback.
Location of Mine: L.S. 1 & 2, Sec. 36, Twp. 14, Rge. 22, W. 4th Mer.
Coal Mining Lease Number: 5862.
Registered Trade Name: Butte Jewel Coal.

COALSPUR AREA

Sterling-Coal Valley Mining Co. Ltd.—Mine No. 769

Authorized Capital: $500,000.00.
Name of President: C. B. Munson.
Names of Directors: C. B. Munson, W. F. Stevenson, F. J. Mitchell, S. W. Field.
Name of Secretary-Treasurer: W. C. Willetts.
Head Office: McLeod Building, Edmonton, Alberta.
Mine Office: Sterco, Alberta.
General Manager: W. F. Stevenson.
Mine Manager: R. G. Walker.
Mine Surveyor: A. A. Fraser.
Foremen: J. Long, W. A. Allen.
Blaster: J. Savignac.
Thickness of Seam: 17 ft.
Thickness of Cover: 20 ft.
Inclination of Seam: Horizontal.
Form of Opening: Strip Mine.
Location of Mine: L.S. 12, Sec. 35, Twp. 47, Rge. 20, W. 5th Mer.
Coal Mining Lease Numbers: 5662, 5663, 667.
Mine Located on C.N.R.
Registered Trade Name: Sterling Coal.

The Foothills Collieries Ltd. Mine No. 771

Authorized Capital: $300,000.00.
Name of President: A. E. Windatt.
Names of Directors: E. H. Bennest, K.C., Rt. Hon. Lord Gort, W. J. Windatt.
Name of Secretary-Treasurer: R. R. Graham.
Head Office, Foothills, Alberta.
Mine Office: Foothills, Alberta.
General Manager: W. L. Hammett.
Mine Manager: W. Morris.
Mine Surveyor: L. C. Stevens.
Overmen: E. Griffiths, W. Smillie.
Firebosses: J. Hogg, J. E. Mitchell, E. Richards, W. Aitken, H. Rhodes, I. MacLaren.
Thickness of Seam: 8 ft.
Thickness of Cover: 0 to 800 ft.
Inclination of Seam: 22 degrees.
Form of Opening: Slope. Size of Slope: 12 ft. x 8 ft. Depth of Slope: 2350 ft.
Location of Mine: L.S. 2, 7, 10 & 15, Sec. 24, Twp. 47, Rge. 20, W. 5th Mer.
Coal Mining Lease Number: 5344.
Mine Located on C.N.R.
Registered Trade Name: Foothills Coal.

McLeod River Hard Coal Co. (1941) Ltd. Mine No. 846

Authorized Capital: $50,000.00.
Name of President: N. R. Whittall.
Names of Directors: F. R. Graham, G. Kidd, F. B. Brown, J. A. Boyd, H. R. Plommer.
Name of Secretary-Treasurer: S. V. Isaacson.
Head Office: Nanaimo, B.C.
Mine Office: Mercoal, Alberta.
General Manager: H. R. Plommer.
Mine Manager: R. G. Erikson.
Mine Surveyor: R. G. Erikson.
Overmen: J. Rochester, A. McQueen and A. McIntyre.
Firebosses: D. MacKay, J. Parry, W. Mazur, J. Lidgett Sr., J. Lidgett Jr., J. Keef, C. McMurtry, K. Wheat, S. Protti, J. Denholm, E. Fregren, C. Zayezierski.
Thickness of Seam: 11 ft.
Thickness of Cover: 0 to 800 ft.
Inclination of Seam: 20 degrees to 45 degrees.
Form of Opening: Slope. Size of Slope: 8 ft. x 12 ft. Depth of Slope: 1,800 ft.
Location of Mine: L.S. 4, Sec. 25, Twp. 48, Rge. 22, W. 5th Mer.
Coal Mining Lease Number: 1605.
C.N.R., C.P.R., and Truck Mine.
Registered Trade Name: McLeod River Hard Coal.

Sterling-Coal Valley Mining Co. Ltd.—Mine No. 1002

Authorized Capital: $1,000,000.00.

Name of President: C. B. Munson.
Names of Directors: C. B. Munson, W. F. Stevenson, S. W. Field, F. J. Mitchell.
Name of Secretary-Treasurer: W. C. Willetts.
Head Office: McLeod Building, Edmonton, Alberta.
Mine Office: Coal Valley, Alberta.
Agent: W. F. Stevenson.
Mine Manager: A. A. Fraser.
Mine Surveyor: A. A. Fraser.
Foremen: M. Fortin, P. Kukuchka, J. Troudt.
Blaster: N. Lovenuik.
Thickness of Seam: 300 ft.
Thickness of Cover: 0 to 110 ft.
Inclination of Seam: 40 degrees.
Form of Opening: Strip Mine.
Location of Mine: W½ of L.S. 10, Sec. 25, Twp. 47, Rge. 20, W. 5th Mer.
Coal Mining Lease Number: 5414.
Mine Located on C.N.R.
Registered Trade Name: Cova Coal.

North Western Coal & Oil Limited—Mine No. 1157

Authorized Capital: $500,000.00.
Name of President: Hugh B. Griffith.
Names of Directors: Griffith, Casson, Bendall, Hotchkiss, F. E. Reuben.
Name of Secretary-Treasurer: C. H. Reid.
Head Office: 1224 St. Catherine Street West, Montreal.
Mine Office: Robb, Alberta.
Strip Mine Manager: L. G. Chavignaud.
Underground Mine Manager: W. James.
Mine Surveyor: D. F. MacKinnon.
Overman: W. James.
Foremen: T. Bartch, C. Phillips.
Blaster: Steve Baluch.
Firebosses: J. R. Brown, R. Voynovich, E. Aloisio.
Thickness of Seam: Underground Mine 8½ ft. Strip Mine: 24 ft.
Thickness of Cover: 20 ft. to 50 ft.
Inclination of Seam: 36 degrees.
Form of Opening: Slope and Strip Mine. Size of Slope: 8 ft. x 12 ft. Depth of Slope: 760 ft.
Location of Mine: Pts. of Secs. 15, 16, 21, 22, Twp. 49, Rge. 21, W. 5th Mer.
Coal Mining Lease Numbers: 5315, 5757, 5758.
C.N.R. and Truck Mine.
Registered Trade Name: Bryan Mountain Hard Coal.

Long Coal Company—Mine No. 1692

Authorized Capital: $20,000.00.
Name of President: M. L. Vitaly.
Name of Director: A. F. Duncan.
Name of Secretary: Mrs. M. L. Vitaly.
Name of Treasurer: M. L. Vitaly.
Head Office: 10414-95 Street, Edmonton, Alberta.
Mine Office: Coalspur, Alberta.
Mine Manager: M. L. Vitaly.
Mine Surveyor: L. C. Stevens.
Overman: M. L. Vitaly.
Thickness of Seam: 9½ ft.
Inclination of Seam: 55 degrees.
Form of Opening: Drift.
Location of Mine: L.S. 7, Sec. 23, Twp. 48, Rge. 21, W. 5th Mer.
Coal Mining Lease Numbers: 5724, 5725.
C.N.R. and Truck Mine.
Registered Trade Name: King Coal.

CROWSNEST AREA

West Canadian Collieries Ltd. Mine No. 87

Authorized Capital: $2,900,000.00.
Name of President: E. Rasson.
Names of Directors: Bernard, Blondel, P. Decoster, Dunning, Beaubien, Cavrois, Houze, Brusset.
Name of Secretary: G. H. Labyt.
Head Office: 833 Salisbury House, London Wall, London, England.
Mine Office: Bellevue, Alberta.
Mine Manager: D. Millar.
Mine Surveyor: R. Glover.
Overmen: D. Rees, D. Hutton, A. Goodwin, C. Young, A. Grant.
Firebosses: C. Woolney, J. Michayluk, J. McLeod, J. Radford, A. Emmerson, C. Olitch, W. Alexander, E. Coates, J. Senycz.
Thickness of Seam: 0 to 20 ft.
Thickness of Cover: 0 to 1000 ft.
Inclination of Seam: 0 to 90 degrees.
Form of Opening: Drift, and Strip Mine.
Location of Mine: L.S. 10, Sec. 20, Twp. 7, Rge. 3, W. 5th Mer.
Coal Mining Lease Number: M.S. 231.
C.P.R. and Truck Mine.
Registered Trade Name: Bellevue Coal.

International Coal & Coke Ltd.—Mine No. 88

Authorized Capital: $3,000,000.00.
Name of President: H. A. Howard.
Names of Directors: J. Black, H. A. Howard, R. G. Anderson, A. L. Johannson, R. R. McNaughton, G. A. Wallinger, J. Buchanan, G. M. Warren, J. J. McIntyre.
Name of Secretary-Treasurer: P. A. Dickieson.
Mine Office: Coleman, Alberta.
Agent: J. J. McIntyre.
Mine Manager: W. B. Fraser.
Mine Surveyor: H. E. Hewitt.
Overmen: J. Marconi, E. Hill, G. Marconi.
Firebosses: J. Hillary, J. V. Fraser, J. P. McIntyre, L. C. Richards, A. Jones, J. Moore, P. Topak, L. Hotte, A. J. Phillips, J. Morris, R. Woods, J. Lowe, T. Donaldson, B. Fontana, T. DeCecco.
Thickness of Seam: 5 ft. to 12 ft.
Thickness of Cover: Over 2000 ft.
Inclination of Seam: 30 degrees.
Form of Opening: Slope, and Strip Mine. Size of Slope: 12 ft. x 10 ft. Depth of Slope: 3400 ft.
Location of Mine: L.S. 11, Sec. 8, Twp. 8, Rge. 4, W. 5th Mer.
Coal Mining Lease Number: 2886.
C.P.R. and Truck Mine.
Registered Trade Name: International Coal.

Hillcrest Mohawk Collieries Ltd.—Mine No. 133

Authorized Capital: $2,500,000.00
Name of President: J. Gordon.
Names of Directors: F. J. Harquail, M. Graves, E. Richardson, J. C. Kemp, E. Johnson.
Name of Secretary: F. J. Harquail.
Name of Treasurer: E. Richardson.
Mine Office: Bellevue, Alberta.
Agent: F. J. Harquail.
Mine Manager: H. Millar.
Mine Surveyor: A. Halldorson.
Overmen: J. Ironmonger, J. Curry, J. Shearer.
Firebosses: F. White, L. Luini, B. Tamborini, J. McDade, A. Craig.
Thickness of Seam: 8 ft.
Thickness of Cover: 800 ft.
Inclination of Seam: 85 degrees.
Form of Opening: Slope. Size of Slope: 8 ft. x 9 ft. Depth of Slope: 900 ft.
Location of Mine: S.E. ¼ of Sec. 21, Twp. 7, Rge. 3, W. 5th Mer.
Coal Mining Lease Number: C.L.S.
Truck Mine and C.P.R. Mine.
Registered Trade Name: Hillcrest Mohawk Coal.

Beaver Mines Coal Co.—Mine No. 199

Authorized Capital: $10,000.00.

Mine Office: Beaver Mines, Alberta.
Mine Manager: J. Fisher.
Mine Surveyor: F. Utley.
Overman: J. Fisher.
Thickness of Seam: 6 ft.
Thickness of Cover: 70 ft.
Inclination of Seam: 30 degrees to 40 degrees.
Form of Opening: Drift.
Location of Mine: L.S. 2, Sec. 12, Twp. 7, Rge. 2, W. 5th Mer.
Coal Mining Lease Number: 5668.
Mine Located on C.P.R.
Registered Trade Name: Beaver Mine Coal.

McGillivray Creek Coal & Coke Co. Ltd. Mine No. 204

Authorized Capital: $3,000,000.00.
Name of President: H. A. Howard.
Names of Directors: R. R. McNaughton, G. M. Warren, H. A. Thoeny, A. L. Johannson, G. Anderson, G. A. Wallinger.
Name of Secretary-Treasurer: S. C. Short.
Mine Office: Coleman, Alberta.
Agent: J. J. McIntyre.
Mine Manager: Andrew Wilson.
Mine Surveyor: A. E. Graham.
Overmen: E. Allen, W. P. Lonsbury, W. Anderson.
Firebosses: R. Campbell, A. Galbraith, W. Hopkins, M. Kubica Jr., R. Morris, J. Ondrik, A. Panek, R. Parry, J. J. Sikora, H. Urwin, E. Krywolt, L. Vasek.
Thickness of Seam: No. 2 Seam: 9 ft. No. 4 Seam: 4½ ft.
Thickness of Cover: 0 to 2400 ft.
Inclination of Seam: 35 degrees.
Form of Opening: Slope and Strip Mine. Size of Slope: 8 ft. x 12 ft. Depth of Slope: 4500 ft.
Location of Mine: S.W. ¼ of L.S. 2, Sec. 17, Twp. 8, Rge. 4, W. 5th Mer.
Coal Mining Lease Number: C.L.S. 449.
C.P.R. and Truck Mine.
Registered Trade Name: McGillivray Creek Coal.

West Canadian Collieries Ltd.—Mine No. 396

Authorized Capital: $2,900,000.00.
Name of President: E. Rasson.
Names of Directors: Bernard, Blondel, Brusset, Decoster, Dunning, Beaubien, Cavrois, Houze.
Name of Secretary: G. H. Labyt.
Head Office: Blairmore, Alberta.
Agent: J. A. Brusset.
Mine Manager: T. E. Morgan.
Mine Surveyor: D. T. Brown.
Overmen: M. Hamilton, L. Hucik, R. Tongue, D. McLafferty.
Firebosses: G. Gibson, A. Rae, A. Tiberg, C. Miller, J. McIsaac, A. Avons, T. Zupan, T. Ambrosi, J. Patterson, S. Patterson, J. Deidzic, J. Sharreta, I. Walker, R. Draper, V. Blas, R. Blake.
Thickness of Seam: 5 ft. to 16 ft.
Thickness of Cover: 0 to 1000 ft.
Inclination of Seam: 40 degrees.
Form of Opening: Drift and Strip Mine.
Location of Mine: L.S. 10, Sec. 2, Twp. 8, Rge. 4, W. 5th Mer.
Coal Mining Lease Numbers: C.L.S. 125, 506.
C.P.R. and Truck Mine.
Registered Trade Name: Greenhill Coal.

West Canadian Collieries Ltd.—Mine No. 1584

Authorized Capital: $2,900,000.00.
Name of President: E. Rasson.
Names of Directors: Bernard, Blondel, Decoster, Dunning, Beaubien, Cavrois, Houze, Brusset.
Name of Secretary: L. H. Labyt.
Head Office: 883 Salisbury House, London Wall, London, England.
Mine Office: Blairmore, Alberta.
Agent: J. A. Brusset.
Mine Manager: N. Melnyk.
Mine Surveyor: J. R. Glover.
Overmen: R. Blake, C. MacDonald.
Firebosses: C. Dambois, K. MacDonald, H. McLafferty, J. Makin, E. Lawrence.
Thickness of Seam: 8 ft. to 16 ft.
Thickness of Cover: 100 ft. to 800 ft.
Inclination of Seam: 14 degrees to 70 degrees.
Form of Opening: Drift.
Location of Mine: L.S. 15, Sec. 31, Twp. 6, Rge. 3, W. 5th Mer.
Coal Mining Lease Numbers: M.S. 94, 174.
C.P.R. and Truck Mine.
Registered Trade Name: Adanac Coal.

Hillcrest Mohawk Collieries Ltd.—Mine No. 1695

Authorized Capital: $1,250,000.00.
Name of President: J. Gordon.
Names of Directors: F. J. Harquail, M. Graves, E. Richardson, J. C. Kemp, E. Johnson.
Name of Secretary: F. J. Harquail.
Name of Treasurer: E. Richardson.
Mine Office: Bellevue, Alberta.
Mine Manager: A. Halldorson.
Mine Surveyor: A. Halldorson.
Foremen: L. Siega, O. Bohle, T. Cardle.
Blaster: T. Craig.
Thickness of Seam: 100 ft. to 200 ft.
Inclination of Seam: 65 degrees to 70 degrees.
Form of Opening: Strip Mine.
Location of Mine: Twp. 7, Rge. 6, W. 5th Mer.
Coal Mining Lease Number: 5710, Freehold.
Mine Located on C.P.R.
Registered Trade Name: Tent Mountain Coal.

DRUMHELLER AREA

Rosedale Collieries Ltd.—Mine No. 346

Authorized Capital: $600,000.00.
Name of President: J. R. Brodie.
Names of Directors: J. R. Brodie, F. H. Nord, C. F. Doerr, R. W. Wilton.
Name of Secretary-Treasurer: C. E. Rogers.
Mine Office: Rosedale, Alberta.
Agent: R. Richards.
Mine Manager: J. T. Burton.
Mine Surveyor: R. Richards.
Overmen: R. Bradshaw, W. Jones.
Firebosses: J. Zambo, S. Berlando, F. Kubicek, J. Ewing, A. Sladek, W. Roberts, H. Sladek, D. Colley, T. Spensley, M. Morel.
Thickness of Seam: 3 ft. to 6½ ft.
Thickness of Cover: 450 ft.
Inclination of Seam: Horizontal.
Form of Opening: Drift and Shaft. Size of Shaft: 11 ft. x 15 ft. Depth of Shaft: 45 ft.
Location of Mine: L.S. 14, Sec. 28, Twp. 28, Rge. 19, W. 4th Mer.
Coal Mining Lease Numbers: 5038, 5039.
C.N.R., C.P.R. and Truck Mine.
Registered Trade Name: Rosedale Coal.

Midland Coal Mining Co. Ltd.—Mine No. 367

Authorized Capital: $50,000.00.
Name of President: Mrs. S. L. McMullen.
Names of Directors: Mrs. S. L. McMullen, W. R. Sandercock, S. G. McMullen.
Name of Secretary: S. G. McMullen.
Mine Manager: W. Hibbert.
Mine Surveyor: A. Hamilton.
Overman: A. Burrell.

Firebosses: H. Hulbert, J. Iwanichuck, W. Holowatiuk, J. Jubb, W. Price, E. Harris, M. Bobrosky, J. Martell, J. Saville, P. Snow, M. Tanner, S. Appleby, F. Ewing, W. Briggs.
Thickness of Seam: 5 ft.
Thickness of Cover: 550 ft.
Inclination of Seam: Horizontal.
Form of Opening: Shaft. Size of Shaft: 9 ft. x 19 ft. Depth of Shaft: 135 ft.
Location of Mine: L.S. 14, Sec. 9, Twp. 29, Rge. 20, W. 4th Mer.
Coal Mining Lease Numbers: 5068, S. L. 550.
C.N.R., C.P.R. and Truck Mine.
Registered Trade Name: Midland & Mercury Coals.

Red Deer Valley Coal Co. Ltd.—Mine No. 402

Authorized Capital: $347,100.00.
Name of President: W. S. Howland.
Names of Directors: W. S. Howland, Mary A. Howland, Louise M. Howland, Ward H. Patterson, U. S. Ansley.
Name of Secretary: Ward H. Patterson, K.C.
Head Office: Drumheller, Alberta.
Mine Office: Nacmine, Alberta.
Agent: U. S. Ansley.
Mine Manager: I. Potter.
Mine Surveyor: A. G. Macaulay.
Overmen: J. Barrie, C. Currie.
Firebosses: I. Folden, C. Levesque, P. Goods, H. Roberts, G. Anderson, N. S. Duncan, A. Hooyberg, G. Biro, J. Gallagher, A. Shields, G. Cumberford.
Thickness of Seam: 5½ ft.
Thickness of Cover: 190 ft. to 550 ft.
Inclination of Seam: Horizontal.
Form of Opening: Slope. Size of Slope: 11 ft. x 7 ft. Depth of Slope: 650 ft. at 17 degrees.
Location of Mine: N. E. ¼ Road Allowance, Sec. 18, Twp. 29, Rge. 20. W. 4th Mer.
Coal Mining Lease Number: 5556.
C.N.R., C.P.R. and Truck Mine.
Registered Trade Name: Glocoal.

Century Coals Ltd.—Mine No. 422

Name of President: Brig. L. Patrick.
Head Office: Calgary, Alberta.
Mine Office: Drumheller, Alberta.
Agent: Brig. L. Patrick.
Mine Manager: A. C. Hnatyshyn.
Mine Surveyor: A. C. Hnatyshyn.
Overmen: D. Mayoh, R. Raisbeck.
Firebosses: W. Morse, R. Halbert, M. Trevethin, R. Keith, A. Thomson, J. Oxbury, W. Taylor.
Thickness of Seam: 4 ft.
Thickness of Cover: 600 ft.
Inclination of Seam: Horizontal.
Form of Opening: Shaft. Size of Shaft: 12 x 20 ft. Depth of Shaft: 166 ft.
Location of Mine: L.S. 5, Sec. 9, Twp. 29, Rge. 20, W. 4th Mer.
Coal Mining Lease Number: 2379.
C.N.R., C.P.R. and Truck Mine.
Registered Trade Name: Commander Coal.

Rosedale Collieries Ltd.—Mine No. 436

Authorized Capital: $600,000.00.
Name of President: J. R. Brodie.
Names of Directors: J. R. Brodie, F. H. Nord, C. F. Doerr, R. W. Wilton.
Name of Secretary-Treasurer: C. E. Rogers.
Head Office: Rosedale, Alberta.
Mine Office: Aerial, Alberta.
Agent: R. Richards.
Mine Manager: J. T. Burton.
Mine Surveyor: R. Richards.
Overman: H. Looten.
Firebosses: I. C. Radocy, E. M. Davies, P. Kenakin, T. Sirko, P. Ludwig.
Thickness of Seam: 6½ ft.
Thickness of Cover: 500 ft.
Inclination of Seam: Horizontal.
Form of Opening: Drift.
Location of Mine: S.E. ¼ of L.S. 7, Sec. 28, Twp. 28, Rge. 19, W. 4th Mer.
Coal Mining Lease Numbers: 5104, 5105.
C.N.R., C.P.R. and Truck Mine.
Registered Trade Name: Star Coal.

Brilliant Coal Co. Ltd.—Mine No. 1258

Authorized Capital: $300,000.00.
Name of President: J. A. Sandino.
Mine Office: Drumheller, Alberta.
Agent: J. A. Sandino.
Mine Manager: R. Dunn.
Mine Surveyor: L. C. Stevens.
Overman: J. Saunt.
Firebosses: T. McNeill, J. March, F. Elkes, A. Armstrong.
Thickness of Seam: 6 ft.
Thickness of Cover: 400 ft. to 450 ft.
Inclination of Seam: Horizontal.
Form of Opening: Shaft and Slope. Size of Shaft: 8 ft. x 12 ft. Depth of Shaft: 120 ft. Size of Slope: 6 ft. x 8 ft. Depth of Slope: 450 ft.
Location of Mine: L.S. 14, Sec. 10, Twp. 29, Rge. 20, W. 4th Mer.
Coal Mining Lease Number: 5045.
C.N.R., C.P.R. and Truck Mine.
Registered Trade Name: Brilliant Coal.

Saskatchewan Federated Co-ops Ltd. (Mine No. 1289

Authorized Capital: $10,000,000.00.
Name of President: George Urwin.
Names of Directors: G. P. Baker, L. G. Bright, J. B. Bryson, F. S. Coffey, O. E. Herde, G. Urwin, H. C. Watson, W. A. Johnson, H. L. Lawrence, L. L. Lloyd, W. E. Mills, C. R. Smith.
Name of Secretary: H. L. Fowler.
Name of Treasurer: D. E. Stewart.
Head Office: Saskatoon, Saskatchewan.
Mine Office: East Coulee, Alberta.
Mine Manager: James M. Clyne.
Mine Surveyor: A. G. Macaulay.
Overman: Robert Stratton.
Firebosses: R. Marshall, F. Kane, M. Krill, D. Watson.
Thickness of Seam: 6 ft.
Thickness of Cover: 275 ft.
Inclination of Seam: Horizontal.
Form of Opening: Drift.
Location of Mine: S.W. ¼ of Sec. 32, Twp. 27, Rge. 18, W. 4th Mer.
Coal Mining Lease Number: 5349.
Mine Located on C.N.R., and C.P.R.
Registered Trade Name: Empire Coal.

Saskatchewan Federated Co-ops Ltd. Mine No. 1421

Authorized Capital: $10,000,000.00.
Name of President: George Urwin.
Names of Directors: G. P. Baker, L. Bright, J. B. Bryson, F. S. Coffey, O. A. Herde, W. A. Johnson, H. S. Lawrence, L. L. Lloyd, W. E. Mills, C. R. Smith, G. Urwin, H. C. Watson.
Name of Secretary: H. L. Fowler.
Name of Treasurer: D.E. Stewart.
Head Office: Saskatoon, Saskatchewan.
Mine Office: Drumheller, Alberta.
Mine Manager: John Robertson.
Mine Surveyor: John Robertson.
Overmen: J. Burton, J. Farmer.
Firebosses: E. Farmer, J. Taylor, W. N. Blackett, F. J. Keough, F. Ellison, J. Chiuppi, H. Darbyshire.
Thickness of Seam: 4 ft. to 9 ft.
Thickness of Cover: 100 ft to 300 ft.
Inclination of Seam: Horizontal.
Form of Opening: Shaft and Slope. Size of Shaft: 10 ft. x 15 ft. Depth of Shaft: 89 ft. Size of Slope: 7 ft. x 11 ft. Depth of Slope: 89 ft.
Location of Mine: L.S. 4, 5 & 12, Sec. 14, Twp. 29, Rge. 20, W. 4th Mer.
Coal Mining Lease Number: C.N.R., C.P.R. and Truck Mine.
Registered Trade Name: Hy-Grade Coal.

Royalty Coal Mining Co.—Mine No. 1436

Name of President: F. Jenson.
Name of Secretary: H. Pedersen.
Mine Office: Wayne, Alberta.
Mine Manager: H. Burton.
Mine Surveyor: A. Hamilton.
Overman: C. Currie.
Fireboss: H. Looten.
Thickness of Seam: 3½ ft.
Thickness of Cover: 200 ft.
Inclination of Seam: Horizontal.
Form of Opening: Drift.
Location of Mine: L.S. 13, Sec. 20, Twp. 28, Rge. 19, W. 4th Mer.
Coal Mining Lease Number: C.P.R. 566A.
Truck Mine.
Registered Trade Name: Royalty Coal.

Century Coals Ltd.—Mine No. 1484

Name of President: L. Patrick.
Head Office: 2410-4th Street S.W., Calgary, Alberta.
Mine Office: East Coulee, Alberta.
Mine Manager: Hugh Crawford.
Mine Surveyor: A. Hnatyshyn.
Overman: Stanley Mather.
Firebosses: A. Andrew, P. Premoroko, H. Looten, A. James, J. Raisbeck Sr., R. Gurtler, W. Koehler, B. Waggoner, W. Allen, W. Olesky, J. Young.
Thickness of Seam: 5 ft.
Thickness of Cover: 200 ft. to 400 ft.
Inclination of Seam: Horizontal.
Form of Opening: Drift.
Location of Mine: N.W. ¼ of L.S. 13, Sec. 21, Twp. 27, Rge. 18, W. 4th Mer.
Coal Mining Lease Number: C.P.R. 554A, 601.
C.N.R., C.P.R. and Truck Mine.
Registered Trade Name: New Wildfire Coal.

Murray Collieries Ltd.—Mine No. 1491

Authorized Capital: $100,000.00.
Name of President: H. Reed.
Names of Directors: H. Reed, D. McVeigh.
Mine Office: East Coulee, Alberta.
Mine Manager: H. G. MacKinnon.
Mine Surveyor: L. C. Stevens.
Overman: T. McDonald.
Firebosses: J. MacKenzie, W. Herman, J. Cotterill, R. Niblett, W. L. Shephard, W. H. Mullinger, J. Biro, R. Steven, R. Anderson, G. E. Anderson.
Thickness of Seam: 5½ ft.
Thickness of Cover: 350 to 400 ft.
Inclination of Seam: Horizontal.
Form of Opening: Drift.
Location of Mine: S.E. ¼ of Sec. 29, Twp. 27, Rge. 18, W. 4th Mer.
Coal Mining Lease Number: C.P.R. 539.
C.N.R., C.P.R. and Truck Mine.
Registered Trade Name: New Murray Coal.

Aetna Coals Ltd.—Mine No. 1511

Authorized Capital: $50,000.00.
Name of President: J. J. O'Dwyer.
Name of Directors: J. J. O'Dwyer, M. A. O'Dwyer.
Name of Secretary-Treasurer: M. A. O'Dwyer.
Head Office: Drumheller, Alberta.
Mine Office: Cambria, Alberta.
Agent: M. A. O'Dwyer.
Mine Manager: M. A. O'Dwyer.
Mine Surveyor: A. Hamilton.
Overman: W. Sarsfield.
Foreman: M. A. O'Dwyer.
Fireboss: M. Ramsay.
Thickness of Seam: 7 ft.
Thickness of Cover: 0 to 400 ft.
Inclination of Seam: Horizontal.
Form of Opening: Slope and Strip Mine. Size of Slope: 14 ft. x 7 ft. Depth of Slope: 100 ft.
Coal Mining Lease Number: 5039.
Location of Mine: L.S. 1, Sec. 22, Twp. 28, Rge. 19, W. 4th Mer.
C.N.R., C.P.R. and Truck Mine.
Registered Trade Name: Aetna Coal.

Empress Coal Co.—Mine No. 1515

Mine Office: Hanna, Alberta.
Mine Manager: E. R. James.
Mine Surveyor: A. Hamilton.
Overman: E. R. James.
Form of Opening: Slope.
Thickness of Seam: 4 ft.
Location of Mine: L.S. 10, 11, 14 & 15, Sec. 22, Twp. 28, Rge. 18, W. 4th Mer.
Coal Mining Lease Number: 5279.
C.N.R., C.P.R. and Truck Mine.
Registered Trade Name: Empress Coal.

The Minute Coal Co.—Mine No. 1520

Mine Office: Drumheller, Alberta.
Agent: J. A. McKenzie.
Mine Manager: J. Sinclair.
Mine Surveyor: A. G. Macaulay.
Overman: J. Sinclair.
Fireboss: J. S. Gammie.
Thickness of Seam: 4 ft.
Thickness of Cover: 150 ft.
Inclination of Seam: Horizontal.
Form of Opening: Drift.
Location of Mine: L.S. 3, 6 & 11, Sec. 14, Twp. 29, Rge. 20, W. 4th Mer.
Coal Mining Lease Number: 2793.
C.N.R., C.P.R. and Truck Mine.
Registered Trade Name: Good Quality Coal.

Sovereign Coal Co. Ltd.—Mine No. 1570

Authorized Capital: $10,000.00.
Name of President: J. J. O'Dwyer.
Names of Directors: J. J. O'Dwyer, M. A. O'Dwyer.
Name of Secretary-Treasurer: M. A. O'Dwyer.
Mine Office: Wayne, Alberta.
Agent: J. J. O'Dwyer.
Mine Manager: R. Stevenson.
Mine Surveyor: A. Hamilton.
Overman: R. Stevenson.
Thickness of Seam: 8 ft.
Thickness of Cover: 30 ft. to 350 ft.
Inclination of Seam: Horizontal.
Form of Opening: Slope. Size of Slope: 14 ft. x 8 ft. Depth of Slope: 140 ft.
Location of Mine: N.E. ¼ of L.S. 8, Sec. 7, Twp. 28, Rge. 19, W. 4th Mer.
Coal Mining Lease Number: Freehold.
C.N.R., C.P.R. and Truck Mine.
Registered Trade Name: Sovereign Coal.

Monarch Coal Mining Co. Ltd.—Mine No. 1573

Authorized Capital: $311,500.00.
Name of President: E. A. Lovett.
Names of Directors: E. A. Lovett, H. R. Narraway, O. I. Gilbert, T. C. Boyd, D. McNeil.
Name of Secretary-Treasurer: H. R. Narraway.
Head Office: 1503-15th Avenue, West, Calgary, Alberta.
Mine Office: East Coulee, Alberta.
Agent: E. A. Lovett.
Mine Manager: T. Smith.
Mine Surveyor: T. Smith.
Overman: J. Harries.
Firebosses: F. Simpson, N. Morrison, A. Wolff, R. Cowan, J. Barich, W. Menzies, M. Van De Kinder, G. Unsworth.
Thickness of Seam: 5 ft.
Thickness of Cover: 400 ft.
Inclination of Seam: Horizontal.
Form of Opening: Drift.
Location of Mine: L.S. 1, Sec. 20, Twp. 27, Rge. 18, W. 4th Mer.
Coal Mining Lease Number: C.P.R. 587.
C.N.R., C.P.R. and Truck Mine.
Registered Trade Name: Western Monarch Coal.

H. S. Chambers—Mine No. 1599

Mine Office: Drumheller, Alberta.
Mine Manager: H. S. Chambers.
Mine Surveyor: A. G. Macaulay.
Foreman: H. S. Chambers.
Thickness of Seam: 3 ft.
Thickness of Cover: 25 ft.
Inclination of Seam: Horizontal.
Form of Opening: Strip Mine.
Location of Mine: L.S. 12, Sec. 23, Twp. 28, Rge. 18, W. 4th Mer.
Coal Mining Lease Number: 5458.
Truck Mine.
Registered Trade Name: Burn-Brite Coal.

J. Wakaruk—Mine No. 1655

Name of President: J. Wakaruk.
Names of Directors: F. Zayac, W. Walker, G. Wakaruk.
Name of Secretary-Treasurer: G. Wakaruk.
Mine Office: Drumheller, Alberta.
Mine Manager: G. Wakaruk.
Mine Surveyor: A. G. Macaulay.
Overman: G. Wakaruk.
Firebosses: G. Wakaruk and W. Walker.
Thickness of Seam: 5 ft.
Thickness of Cover: 200 ft.
Inclination of Seam: Horizontal.
Form of Opening: Slope. Size of Slope: 6 ft. x 6 ft. Depth of Slope: 65 ft.
Location of Mine: W. & E. ½ of L.S. 9 & 10, Sec. 22, Twp. 29, Rge. 20, W. 4th Mer.
Coal Mining Lease Number: 5593.
Truck Mine.
Registered Trade Name: Cozy Coal.

Victor Leonhardt—Mine No. 1668

Mine Office: Drumheller, Alberta.
Mine Manager: Victor Leonhardt.
Mine Surveyor: A. Hamilton.
Foreman: Victor Leonhardt.
Thickness of Seam: 2 ft.
Thickness of Cover: 10 ft. to 20 ft.
Inclination of Seam: Horizontal.
Form of Opening: Strip Mine.
Location of Mine: L.S. 3, Sec. 12, Twp. 29, Rge. 20, W. 4th Mer.
Coal Mining Lease Number: 5641.
Truck Mine.
Registered Trade Name: Lion Coal.

Joy Coal Mining Co. Ltd.—Mine No. 1669

Name of Secretary-Treasurer: H. Brooks.
Mine Office: Cambria, Alberta.
Agent: W. Young.
Mine Manager: J. Conlin.
Mine Surveyor: A. Hamilton.
Overman: J. Conlin.
Fireboss: J. Kushnir.
Thickness of Seam: 3 ft.
Thickness of Cover: 300 ft.
Inclination of Seam: Horizontal.
Form of Opening: Drift.
Location of Mine: L.S. 11, 12 & 13, Sec. 18, Twp. 28, Rge. 19, W. 4th Mer.
Coal Mining Lease Number: C.P.R. 668.
C.N.R., C.P.R. and Truck Mine
Registered Trade Name: Sunshine Coal.

EDMONTON AREA

Ottewell Coal Co. Ltd.—Mine No. 91

Authorized Capital: $30,000.00.
Mine Office: Clover Bar.
Mine Manager: W. J. Ottewell.
Mine Surveyor: L. C. Stevens.
Overman: W. J. Ottewell.
Thickness of Seam: 4 ft.
Thickness of Cover: 80 ft.
Inclination of Seam: Horizontal.
Form of Opening: Shaft. Size of Shaft: 8 ft. x 9 ft. Depth of Shaft: 85 ft.
Location of Mine: S.W. ¼ of L.S. 4, Sec. 17, Twp. 53, Rge. 23, W. 4th Mer.
Coal Mining Lease Number: Ed. Sak Land.
Truck Mine.
Registered Trade Name: Clover Gem Coal.

Great West Coal Co. Ltd.—Mine No. 99

Authorized Capital: $78,500.00.
Name of President: A. C. Dunn.
Names of Directors: A. C. Dunn, W. S. Cupples, M. M. Jenkinson.
Name of Secretary-Treasurer: T. S. Campbell.
Head Office: 10157-102nd Street, Edmonton, Alberta.
Mine Office: Clover Bar, Alberta.
Agent: A. C. Dunn.
Mine Manager: R. Dalziel.
Mine Surveyor: R. A. Dunn.
Overman: A. Park.
Firebosses: W. C. Thomson, G. Muir, H. Harpham, J. Smith, O. Griffiths.
Thickness of Seam: 4 ft. to 6½ ft.
Thickness of Cover: 140 ft. to 210 ft.
Inclination of Seam: Horizontal.
Form of Opening: Slope and Shaft: Size of Shaft: 6 ft. x 8 ft. Depth of Shaft: 150 ft. to 180 ft. Size of Slope: 10 ft by 6 ft. Depth of Slope: 140 ft.
Location of Mine: S.E. ¼ of L.S. 10, Sec. 7, Twp. 53, Rge. 23, W. 4th Mer.
Coal Mining Lease Number: M.S. 235.
C.N.R. and Truck Mine.
Registered Trade Name: Black Diamond Coal.

Sundance Mines Ltd.—Mine No. 129

Authorized Capital: $30,000.00.
Name of President: P. H. Cote.
Names of Directors: L. P. Mousseau and C. Tucker.
Name of Secretary: P. E. Poirier.
Head Office: 526 Tegler Building, Edmonton, Alberta.
Mine Office: Cardiff, Alberta.
Agent: P. H. Cote.
Mine Manager: P. H. Cote.
Foreman: G. Vranas.
Mine Surveyor: L. C. Stevens.
Thickness of Seam: 8 ft.
Thickness of Cover: 30 ft.
Inclination of Seam: Horizontal.
Form of Opening: Strip Mine.
Location of Mine: N.E. ¼ of L.S. 16, Sec. 14, Twp. 55, Rge. 25, W. 4th Mer.
Coal Mining Lease Number: 5669.
C.N.R., C.P.R., N.A.R., and Truck Mine.
Registered Trade Name: Suncole.

Banner Coals Ltd.—Mine No. 428

Authorized Capital: $20,000.00.
Name of President: J. B. Starky.
Names of Directors: J. B. Starky, and E. A. Mills.
Name of Secretary-Treasurer: E. A. Mills.
Head Office: 10631-92nd Street, Edmonton, Alberta.
Mine Office: Carbondale, Alberta.
Agent: J. B. Starky.
Mine Manager: W. T. Worthington.
Mine Surveyor: W. T. Worthington.
Overman: J. Hutton.
Firebosses: N. Neilsen, J. McMillan, J. Gelli, J. W. Wilkinson.
Thickness of Seam: 4 ft.
Thickness of Cover: 175 ft.
Inclination of Seam: Horizontal.
Form of Opening: Shaft. Size of Shaft: 12 ft. x 12 ft. Depth of Shaft: 175 ft.
Location of Mine: L.S. 10, Sec. 8, Twp. 55, Rge. 24, W. 4th Mer.
Coal Mining Lease Number: Pat. R. Kelly.
C.N.R., C.P.R., and Truck Mine.
Registered Trade Name: Penn Coal.

Double "E" Collieries—Mine No. 1098

Authorized Capital: $18,000.00.
Mine Office: Namao, Alberta.
Head Office: 10026-105A Avenue, Edmonton, Alberta.
Mine Manager: S. Kozmeniuk.
Mine Surveyor: L. C. Stevens.
Overman: S. Kozmeniuk.
Thickness of Seam: 6 ft. to 8 ft.
Thickness of Cover: 98 ft.
Inclination of Seam: Horizontal.
Form of Opening: Slope. Size of Slope: 8 ft. x 7 ft. Depth of Slope: 30 ft.
Location of Mine: L.S. 4, Sec. 31, Twp. 54, Rge. 24, W. 4th Mer.
Coal Mining Lease Number: Pat. G. S. Long.
Truck Mine.
Registered Trade Name: "EE" Coal.

Edmonton Collieries Ltd.—Mine No. 1266

Authorized Capital: $20,000.00.
Name of President: W. Gordon MacKay.
Names of Directors: W. G. MacKay, H. W. Layton, C. C. Down.
Name of Secretary-Treasurer: H. W. Layton.
Head Office: 10322-105th Street, Edmonton, Alberta.
Mine Office: Namao, Alberta.
Agent: W. Gordon MacKay.
Mine Manager: Alex Crawford.
Mine Surveyor: L. C. Stevens.
Overman: A. Johnstone.
Fireboss: F. Price.
Thickness of Seam: 8 ft.
Thickness of Cover: 85 ft.
Inclination of Seam: Horizontal.
Form of Opening: Slope. Size of Slope: 7 ft. x 7 ft. Depth of Slope: 375 ft.
Location of Mine: L.S. 14, Sec. 36, Twp. 54, Rge. 25, W. 4th Mer.
Coal Mining Lease Number: C.P.R. 596.
C.N.R., C.P.R., N.A.R. and Truck Mine.
Registered Trade Name: Black Gem Coal.

Samis Collieries Ltd.—Mine No. 1316

Head Office: 203 Wallace Building, Edmonton, Alberta.
Mine Office: Namao, Alberta.
Agent: K. E. Samis.
Mine Manager: A. B. Lister.
Mine Surveyor: L. C. Stevens.
Overman: A. B. Lister.
Fireboss: S. Samis.
Thickness of Seam: 14 ft.
Thickness of Cover: 55 ft.
Inclination of Seam: Horizontal.
Form of Opening: Slope. Size of Slope: 6 ft. x 6 ft. Depth of Slope: 150 ft.
Location of Mine: L.S. 6, Sec. 36, Twp. 54, Rge. 25, W. 4th Mer.
Coal Mining Lease Number: Pat. F. Donald.
C.N.R., C.P.R. and Truck Mine.
Registered Trade Name: Samis Coal.

Red Hot Coal Co. Ltd.—Mine No. 1357

Authorized Capital: $23,000.00.
Name of President: W. Fridel.
Names of Directors: W. Fridel, J. Lang, K. Bruskiewich, S. Kubeczka, J. Gorski, J. Tworek.
Name of Secretary-Treasurer: J. Lang.
Mine Office: Forest Heights, Alberta.
Mine Manager: H. Simmons.
Agent: W. Fridel.
Mine Surveyor: L. C. Stevens.
Overman: H. Simmons.
Fireboss: W. Aitken.
Thickness of Seam: 4½ ft.
Thickness of Cover: 185 ft.
Inclination of Seam: Horizontal.
Form of Opening: Slope. Size of Slope: 6 ft. x 6 ft. Depth of Slope: 615 ft.
Location of Mine: River Lot 33, Edmonton Settlement.
Coal Mining Lease Number: M.S. 632.
C.N.R., and Truck Mine.
Registered Trade Name: Red Hot Coal.

Beverly Coals Ltd.—Mine No. 1366

Authorized Capital: $97,000.00.
Name of President: L. H. Davidson.
Names of Directors: L. H. Davidson, A. V. Carlson, T. E. Hays.
Name of Secretary-Treasurer: T. E. Hays.
Mine Office: Beverly, Alberta.
Agent: G. G. Davidson.
Mine Manager: G. G. Davidson.
Mine Surveyor: L. C. Stevens.
Overman: A. Williams.
Foreman: G. G. Davidson.
Thickness of Seam: 6 ft.
Thickness of Cover: 150 ft.
Inclination of Seam: Horizontal.
Form of Opening: Shaft and Strip Mine. Size of Shaft: 16 ft. x 8 ft. Depth of Shaft: 150 ft.
Location of Mine: L.S. 6, Sec. 13, Twp. 53, Rge. 24, W. 4th Mer.
Coal Mining Lease Number: H.B.C.
Truck Mine.
Registered Trade Name: Beverly Coal.

Pine Creek Collieries Ltd.—Mine No. 1419

Head Office: 10263-112 Street, Edmonton, Alberta.
Mine Office: South Edmonton.
Agent: A. R. Voice.
Mine Manager: T. Opalinski.
Mine Surveyor: L. C. Stevens.
Foreman: T. Opalinski.
Thickness of Seam: 5 ft.
Thickness of Cover: 50 ft.
Inclination of Seam: Horizontal.
Form of Opening: Strip Mine.
Location of Mine: L.S. 4, Sec. 25, Twp. 51, Rge. 25, W. 4th Mer.
Coal Mining Lease Number: C.P.R. 694, 679.
C.N.R. Mine.
Registered Trade Name: Pine Creek Coal.

Riverdale Coals Ltd.—Mine No. 1463

Authorized Capital: $20,000.00.
Name of President: C. K. Brzuskiewicz.
Names of Directors: J. Lang, M. Churoski, S. Brzuskiewicz.
Name of Secretary-Treasurer: J. Mazolewski.
Head Office: 10451-77 Street, Edmonton, Alberta.
Mine Office: Namao, Alberta.
Agent: C. K. Bzruskiewicz.
Mine Manager: J. Bowie.
Mine Surveyor: D. Jones.
Overman: J. Bowie.
Fireboss: W. Kryskow.
Thickness of Seam: 5 ft.
Thickness of Cover: 90 ft.
Inclination of Seam: Horizontal.
Form of Opening: Drift.
Location of Mine: N.E. Corn. of L.S. 14, Sec. 5, Twp. 55, Rge. 24, W. 4th Mer.
Coal Mining Lease Number: Freehold.
C.N.R., C.P.R., and Truck Mine.
Registered Trade Name: Dependable Coal.

G. S. Gwilliam & Samis—Mine No. 1496

Authorized Capital: $88,000.00.
Name of President: K. E. Samis.
Names of Directors: K. E. Samis, D. J. Gwilliam.
Head Office: 203 Wallace Building, Edmonton, Alberta.
Mine Office: Namao, Alberta.
Agent: K. E. Samis.
Mine Surveyor: L. C. Stevens.
Overman: J. Smillie.
Thickness of Seam: 6 ft.

Thickness of Cover: 75 ft.
Inclination of Seam: Horizontal.
Form of Opening: Drift.
Location of Mine: L.S. 3, Sec. 6, Twp. 55, Rge. 24, W. 4th Mer.
Coal Mining Lease Number: 5456, 653.
Truck Mine.
Registered Trade Name: Black Beauty Coal.

Kost Nimko—Mine No. 1560

Head Office: Box 4006, South Edmonton, Alberta.
Mine Office: Rabbit Hill, Alberta.
Agent: K. Nimko.
Mine Manager: K. Nimko.
Mine Surveyor: L. C. Stevens.
Thickness of Seam: 5 ft.
Thickness of Cover: 120 ft.
Form of Opening: Slope. Size of Slope: 6 ft. Depth of Slope: 30 ft.
Location of Mine: L.S. 10, Sec. 25, Twp. 51, Rge. 25, W. 4th Mer.
Coal Mining Lease Number: C.P.R. 623.
Registered Trade Name: White Mud Creek Coal.

Egg Lake Coal Co. Ltd.—Mine No. 1582

Mine Office: Morinville, Alberta.
Mine Manager: T. Logan.
Mine Surveyor: D. Jones.
Foreman: Frank A. Fellows.
Thickness of Seam: 6 ft.
Thickness of Cover: 24 ft.
Inclination of Seam: Horizontal.
Form of Opening: Strip Mine.
Location of Mine: L.S. 13 & 14, Sec. 36, Twp. 56, Rge. 26, W. 4th Mer.
Coal Mining Lease Number: 5600.
Truck Mine.
Registered Trade Name: Egg Lake Coal.

J. B. Starkey Co. Ltd.—Mine No. 1626

Authorized Capital: $250,000.00.
Name of President: J. B. Starkey.
Names of Directors: J. B. Starkey, E. A. Mills.
Name of Secretary-Treasurer: E. A. Mills.
Head Office: 10631-92 Street, Edmonton, Alberta.
Mine Office: R.R. 2, St. Albert, Alberta.
Agent: J. B. Starkey.
Mine Manager: W. T. Worthington Sr.
Mine Surveyor: W. T. Worthington Jr.
Overman: W. T. Worthington, Jr.
Firebosses: H. Wales, S. Kendrick, E. Fawcett, J. McMillan.
Thickness of Seam: 8 ft.
Thickness of Cover: 75 ft.
Inclination of Seam: Horizontal.
Form of Opening: Shaft and Slope. Size of Shaft: 8 ft. x 12 ft. Depth of Shaft: 75 ft. Size of Slope: 7 ft. x 8 ft. Depth of Slope: 215 ft.
Location of Mine: S.W. ¼ of L.S. 4, Sec. 36, Twp. 54, Rge. 25, W. 4th Mer.
Coal Mining Lease Numbers: 5537, 610, 652.
N.A.R. and Truck Mine.
Registered Trade Name: Star-Key Coal.

Beverly Coal Ltd.—Mine No. 1627

Mine Office: Carbondale, Alberta.
Agent: John Mather.
Mine Manager: John Mather.
Mine Surveyor: L. C. Stevens.
Foreman: John Mather.
Thickness of Seam: 6 ft.
Thickness of Cover: 69 ft.
Inclination of Seam: Horizontal.
Form of Opening: Strip Mine and Drift.
Location of Mine: S.W. ¼ of Sec. 17, Twp. 55, Rge. 24, W. 4th Mer.
Coal Mining Lease Number: C.P.R.
Truck Mine.
Registered Trade Name: Carbondale Coal.

Blue Point Mine—Mine No. 1628

Mine Office: Box 2024, South Edmonton, Alberta.
Agent: M. Sinoski.
Mine Manager: S. Sinoski.
Mine Surveyor: L. C. Stevens.
Overman: S. Sinoski.
Thickness of Seam: 4 ft.
Thickness of Cover: 100 ft.
Inclination of Seam: Horizontal.
Form of Opening: Shaft. Size of Shaft: 8 ft. x 9 ft. Depth of Shaft: 100 ft.
Location of Mine: L.S. 15, Sec. 23, Twp. 51, Rge. 25, W. 4th Mer.
Coal Mining Lease Numbers: C.P.R. 578, 592.
Truck Mine.
Registered Trade Name: Blue Point Coal.

C. F. MacLachlan—Mine No. 1632

Mine Office: Ardrossan, Alberta.
Head Office: 10502-134 Street, Edmonton, Alberta.
Agent: C. F. MacLachlan.
Mine Manager: M. Olson.
Mine Surveyor: L. C. Stevens.
Foreman: M. Olson.
Thickness of Seam: 5 ft.
Thickness of Cover: 24 ft.
Inclination of Seam: Horizontal.
Form of Opening: Strip Mine.
Location of Mine N. ¼ of L.S. 8 & 9, Sec. 2, Twp. 53, Rge. 21, W. 4th Mer.
Coal Mining Lease Number: 5542.
Truck Mine.
Registered Trade Name: Beaver Hills Coal.

Morinville Collieries Ltd.—Mine No. 1635

Authorized Capital: $40,000.00.
Name of President: John Camarta.
Names of Directors: J. Camarta, J. Schafers, J. McDonald.
Name of Secretary: J. McDonald.
Name of Treasurer: J. Schafers.
Mine Office: Morinville, Alberta.
Mine Manager: J. Camarta.
Mine Surveyor: L. C. Stevens.
Overman: J. Camarta.
Thickness of Seam: 7 ft.
Thickness of Cover: 55 ft.
Inclination of Seam: Horizontal.
Form of Opening: Slope. Size of Slope: 7 ft. x 7 ft. Depth of Slope: 175 ft.
Location of Mine: L.S. 1, Sec. 32, Twp. 55, Rge. 25, W. 4th Mer.
Coal Mining Lease Number: 5565.
C.N.R., C.P.R., N.A.R., and Truck Mine.
Registered Trade Name: Spitfire Coal.

A. Horkulak—Mine No. 1641

Mine Office: Box 4092, South Edmonton, Alberta.
Mine Manager: A. Horkulak.
Mine Surveyor: L. C. Stevens.
Overman: A. Horkulak.
Thickness of Seam: 5 ft.
Thickness of Cover: 100 ft.
Inclination of Seam: Horizontal.
Form of Opening: Slope. Size of Slope: 7 ft. x 7 ft. Depth of Slope: 90 ft.
Location of Mine: L.S. 9, 10, 15 & 16, Sec. 26, Twp. 51, Rge. 25, W 4th Mer.
Coal Mining Lease Numbers: 5520, 638,
Truck Mine.
Registered Trade Name: Rabbit Hill Coal.

J. G. Mucha—Mine No. 1684

Authorized Capital: $15,000.00.
Mine Office: Box 4044, S. Edmonton, Alberta.
Mine Manager: J. Mucha.
Mine Surveyor: L. C. Stevens.
Forman: J. Mucha.

Thickness of Seam: 2 ft.
Thickness of Cover: 26 ft.
Inclination of Seam: Horizontal.
Form of Opening: Strip Mine.
Location of Mine: L.S. 10, Sec. 25, Twp. 51, Rge. 25, W. 4th Mer.
Coal Mining Lease Numbers: C.P.R. 623, 622.
Truck Mine.
Registered Trade Name: Bright Service Coal.

Adelard Houle—Mine No. 1696

Mine Office: Morinville, Alberta.
Mine Manager: A. Houle.
Mine Surveyor: L. C. Stevens.
Foreman: A. Houle.
Thickness of Seam: 6 ft.
Thickness of Cover: 16 ft.
Inclination of Seam: Horizontal.
Form of Opening: Strip Mine.
Location of Mine: L.S. 1, 2, 7 & 8, Sec. 36, Twp. 56, Rge. 26, W. 4th Mer.
Coal Mining Lease Number: 5707.
Truck Mine.
Registered Trade Name: Mearn's Coal.

Banner Coals Ltd.—Mine No. 1724

Authorized Capital: $20,000.00.
Name of President: J. B. Starky.
Name of Secretary: E. A. Mills.
Head Office: 10631-92nd Street, Edmonton, Alberta.
Mine Office: R.R. 2, St. Albert, Alberta.
Agent: J. B. Starky.
Mine Manager: W. T. Worthington Sr.
Mine Surveyor: W. T. Worthington Jr.
Foreman: H. Coljee.
Thickness of Seam: 6 ft.
Thickness of Cover: 20 ft.
Inclination of Seam: Horizontal.
Form of Opening: Strip Mine.
Location of Mine: L.S. 2 of Sec. 24 & L.S. 15 of Sec. 13, Twp. 55, Rge. 25, W. 4th Mer.
Coal Mining Lease Numbers: 6030, C.P.R. 740.
Truck Mine.
Registered Trade Name: New Penn Coal.

GLEICHEN AREA

Blackfoot Indians—Mine No. 72

Mine Office: Gleichen, Alberta.
General Manager: W. P. B. Pugh.
Mine Manager: T. Marshall.
Mine Surveyor: W. E. G. Hall.
Thickness of Seam: 5 ft.
Thickness of Cover: 150 ft. to 200 ft.
Inclination of Seam: Horizontal.
Form of Opening: Drift.
Location of Mine: Blackfoot Indian Reserve.
Truck Mine.

Hans Castella & Sons—Mine No. 1265

President: M. A. Castella.
Mine Office: Standard, Alberta.
General Manager: M. A. Castella.
Mine Manager: J. Hamilton.
Mine Surveyor: D. Jones.
Overman: J. Hamilton.
Thickness of Seam: 4 ft.
Thickness of Cover: 75 ft.
Inclination of Seam: Horizontal.
Form of Opening: Slope. Size of Slope: 5 ft. x 10 ft. Depth of Slope: 110 ft.
Location of Mine: L.S. 5, Sec. 11, Twp. 25, Rge. 22, W. 4th Mer.
Coal Mining Lease Number: C.P.R. 512, 659.
Truck Mine.
Registered Trade Name: Standard Coal.

H. Rassmussen & C. H. Fleischer—Mine No. 1431

Mine Office: Box 34, Rosebud, Alberta.
Mine Manager: C. Fleischer.
Mine Surveyor: David Jones.
Overman: C. Fleischer.
Thickness of Seam: 3 ft.
Thickness of Cover: 20 ft. to 80 ft.
Inclination of Seam: Horizontal.
Form of Opening: Slope. Size of Slope: 6 ft. x 5 ft. Depth of Slope: 30 ft.
Location of Mine: L.S. 3 & 6, Sec. 29, Twp. 26, Rge. 21, W. 4th Mer.
Coal Mining Lease Numbers: C.P.R. 591, 594.
Truck Mine.
Registered Trade Name: Consumer's Coal.

William McMillan—Mine No. 1521

Mine Office: Box 44, Rosebud, Alberta.
Mine Manager: A. McMillan.
Mine Surveyor: David Jones.
Overman: A. McMillan.
Fireboss: C. Smith.
Thickness of Seam: 3½ ft.
Thickness of Cover: 100 ft.
Inclination of Seam: Horizontal.
Form of Opening: Slope. Size of Slope: 5 ft. x 5 ft. Depth of Slope: 140 ft.
Location of Mine: L.S. 14, Sec. 20, Twp. 26, Rge. 21, W. 4th Mer.
Coal Mining Lease Number: C.P.R. 664.
Truck Mine.
Registered Trade Name: Supreme of the Valley Coal.

HALCOURT AREA

Baldwin Collieries Ltd.—Mine No. 651

Mine Office: Grande Prairie, Alberta.
Mine Manager: E. Cumber.
Mine Surveyor: D. Jones.
Overman: E. Cumber.
Thickness of Seam: 3 ft.
Thickness of Cover: 90 ft.
Inclination of Seam: Horizontal.
Form of Opening: Drift.
Location of Mine: L.S. 15, Sec. 35, Twp. 70, Rge. 7, W. 6th Mer.
Coal Mining Lease Number: 2737.
Truck Mine.
Registered Trade Name: Globe Coal.

Michael Romanuik—Mine No. 1704

Mine Office: Beaverlodge, Alberta.
Mine Manager: Michael Romanuik.
Forman: Michael Romanuik.
Form of Opening: Strip Mine.
Location of Mine: N. & S. ½ of L.S. 3 & 6, Sec. 21, Twp. 70, Rge. 10, W. 6th Mer.
Coal Mining Lease Number: 5831.
Registered Trade Name: Burn E.Z. Coal.

HIGH PRAIRIE AREA

John Navara—Mine No. 1722

Authorized Capital: $5,000.00.
Head Office: DeBolt, Alberta.
Mine Office: DeBolt, Alberta.
Mine Manager: John Navara.
Overman: John Navara.
Thickness of Seam: 3 ft.
Thickness of Cover: 100 ft.
Inclination of Seam: Horizontal.
Form of Opening: Drift.
Location of Mine: N. ½'s 13 & 14, Sec. 27, Twp. 70, Rge. 1, W. 6th Mer.
Coal Mining Lease Number: 5950.
C.N.R. and Truck Mine.
Registered Trade Name: Simonette Coal.

LETHBRIDGE AREA

A. Razzolini—Mine No. 56

Mine Office: Magrath, Alberta.
Mine Manager: Albert Razzolini.
Mine Surveyor: J. F. Hamilton.
Overman: Albert Razzolini.
Thickness of Seam: 3½ ft.
Thickness of Cover: 200 ft.
Inclination of Seam: Horizontal.
Form of Opening: Slope. Size of Slope: 5 ft. x 6 ft. Depth of Slope: 30 ft.
Location of Mine: L.S. 3, Sec. 7, Twp. 7, Rge. 21, W. 4th Mer.
Coal Mining Lease Number: Pat. G. Russell.
Truck Mine.
Registered Trade Name: The Baker Coal.

J. A. S. Wukusich—Mine No. 738

Head Office: 732-12 Street "C" North, Lethbridge, Alberta.
Mine Office: Lethbridge, Alberta.
Mine Manager: J. A. S. Wukusich.
Mine Surveyor: J. F. Hamilton.
Overman: J. A. S. Wukusich.
Thickness of Seam: 2 it.
Thickness of Cover: 20 to 200 ft.
Inclination of Seam: Horizontal.
Form of Opening: Drift.
Location of Mine: L.S. 2 & 7, Sec. 11, Twp. 8, Rge. 22, W. 4th Mer.
Coal Mining Lease Number: 5522.
Truck Mine.
Registered Trade Name: Santa-Maria Coal.

George Rollingson & Son—Mine No. 889

Mine Office: Box 432, Lethbridge, Alberta.
Mine Manager: George Rollingson.
Mine Surveyor: J. F. Hamilton.
Overman: George Rollingson.
Thickness of Seam: 2 ft.
Thickness of Cover: 300 ft.
Inclination of Seam: Horizontal.
Form of Opening: Drift.
Location of Mine: E. & W. ½ of L.S. 15 & 16, Sec. 2, Twp. 8, Rge. 22, W. 4th Mer.
Coal Mining Lease Number: 5768.
Registered Trade Name: Whoopup Coal.

Steve Kocsis & Steve Varga—Mine No. 1086

Mine Office: Riverview Apartment, Lethbridge, Alberta.
Mine Manager: Steve Kocsis.
Mine Surveyor: J. F. Hamilton.
Overman: Steve Kocsis.
Thickness of Seam: 3 ft.
Thickness of Cover: 20 ft. to 155 ft.
Inclination of Seam: Horizontal.
Form of Opening: Slope. Size of Slope: 5 ft. x 5 ft. Depth of Slope: 180 ft.
Location of Mine: L.S. 5 & 12, Sec. 8, Twp. 7, Rge. 21, W. 4th Mer.
Coal Mining Lease Number: H.B.C. 137.
Truck Mine.
Registered Trade Name: Steve's Mine.

J. C. Chester—Mine No. 1095

Mine Office: Lethbridge, Alberta.
Mine Manager: D. J. Crabb.
Mine Surveyor: J. F. Hamilton.
Firebosses: G. Chomotti, W. Strickland.
Thickness of Seam: 4 ft.
Thickness of Cover: 100 ft. to 300 ft.
Inclination of Seam: 2 degrees.
Form of Opening: Slope. Size of Slope: 8 ft. x 6 ft. Depth of Slope: 136 ft.
Location of Mine: N. ½ of L.S. 8, Sec. 30, Twp. 9, Rge. 21, W. 4th Mer.
Coal Mining Lease Numbers: C.P.R. 660, 639.
C.P.R. and Truck Mine.
Registered Trade Name: Royal Coal.

Lethbridge Collieries Ltd.—Mine No. 1263

Authorized Capital: $1,400,000.00.
Name of President: Leslie Munroe.
Names of Directors: Leslie Munroe, E. A. Lovett, Wm. Toole, H. D. Rood, G. R. Whitmore.
Name of Secretary: C. T. Webb.
Name of Treasurer: Earl R. Johnson.
Head Office: 137-9th Avenue East, Calgary, Alberta.
Mine Office: Shaughnessy, Alberta.
Agent: J. M. Davidson.
Mine Manager: J. Brady.
Mine Surveyor: R. D. Livingstone.
Overman: Fred Thackray.
Firebosses: W. H. Toodrick, J. Guisto, J. C. McCauley, J. A. Kovacs, A. Czirjak, S. A. Yorko, A. Birse, J. Martell.
Thickness of Seam: 5 ft.
Thickness of Cover: 263 ft.
Inclination of Seam: Dip 2 degrees N. 56 degrees W.
Form of Opening: Shaft: Size of Shaft: 9 ft. x 24 ft. Depth of Shaft: 263 ft.
Location of Mine: L.S. 11, Sec. 30, Twp. 10, Rge. 21, W. 4th Mer.
Coal Mining Lease Number: M.S. 983.
Mine Located on C.P.R.
Registered Trade Name: Cadillac Coal.

Lethbridge Collieries Ltd.—Mine No. 1464

Authorized Capital: $1,400,000.00.
Name of President: Leslie Munroe.
Names of Directors: Leslie Munroe, E. A. Lovett, H. D. Rood, Wm. Toole, G. R. Whitmore.
Name of Secretary: C. T. Webb.
Name of Treasurer: Earl R. Johnson.
Head Office: 137-9th Avenue East, Calgary, Alberta.
Mine Office: Lethbridge, Alberta.
Agent: J. M. Davidson.
Mine Manager: A. G. Donaldson.
Mine Surveyor: R. D. Livingstone.
Overman: H. Tyrer.
Firebosses: A. McCall, D. Crabb, R. Dobson, M. Boychuk, G. Charmotti, J. Stewart Sr., J. Stewart Jr., J. Peta.
Thickness of Seam: 4 ft.
Thickness of Cover: 400 ft.
Inclination of Seam: 1 in 75, N 8 degrees W.
Form of Opening: Shaft. Size of Shaft: 11 ft. x 19 ft. & 9 ft. x 18 ft. Depth of Shaft: 359 ft.
Location of Mine: L.S. 3, Sec. 2, Twp. 9, Rge. 22, W. 4th Mer.
Coal Mining Lease Number: C.P.R. 524.
Mine Located on C.P.R.
Registered Trade Name: Galt Coal.

J. J. Hamilton Coal Co. Ltd.—Mine No. 1581

Authorized Capital: $20,000.00.
Head Office: 413-8th Street South, Lethbridge, Alberta.
Mine Office: Lethbridge, Alberta.
Mine Manager: J. J. Hamilton.
Mine Surveyor: J. F. Hamilton.
Overman: E. Tyrer.
Firebosses: D. Howell, S. Lesson.
Thickness of Seam: 4 ft.
Thickness of Cover: 470 ft.
Inclination of Seam: 2 degrees N.W.
Form of Opening: Shaft. Size of Shaft: 8 ft. x 9 ft. Depth of Shaft: 235 ft.
Location of Mine: L.S. 5, 6, 10, 12 & 15, Sec. 24, Twp. 9, Rge. 22, W. 4th Mer.
Coal Mining Lease Number: 5370.
C.P.R. and Truck Mine.
Registered Trade Name: Federal Coal.

L. C. McClain—Mine No. 1685

Mine Office: Magrath, Alberta.
Mine Manager: L. C. McClain.
Mine Surveyor: J. F. Hamilton.
Foreman: Thomas Minor.
Thickness of Seam: 3½ ft.
Thickness of Cover: 20 ft.
Inclination of Seam: Horizontal.
Form of Opening: Strip Mine.
Location of Mine: Pt. of Sec. 18, Twp. 7, Rge. 21, W. 4th Mer.
Coal Mining Lease Number: Indian Reserve.
Truck Mine.
Registered Trade Name: M. & M. Coal.

MILK RIVER AREA

A. Koshman & J. Martell—Mine No. 1301

Mine Office: Lucky Strike, Alberta.
Mine Manager: Edward Taylor.
Mine Surveyor: J. F. Hamilton.
Overman: Edward Taylor.
Thickness of Seam: 4 ft.
Thickness of Cover: 100 ft.
Inclination of Seam: Horizontal.
Form of Opening: Slope. Size of Slope: 6½ ft. x 5½ ft. Depth of Slope: 221 ft.
Location of Mine: L.S. 7, 8, 9 & 10, Sec. 10, Twp. 3, Rge. 11, W. 4th Mer.
Coal Mining Lease Number: 2832.
Truck Mine.
Registered Trade Name: New Benwell Coal.

MOUNTAIN PARK AREA

Cadomin Coal Co. Ltd.—Mine No. 693

Authorized Capital: $1,200,000.00.
Name of President: H. W. Riley Jr.
Names of Directors: H. W. Riley, Jr., C. Campbell, A. C. Emery, S. W. Field, J. W. Proctor, H. R. Milner.
Name of Secretary-Treasurer, E. M. Collins.
Head Office: 418 McLeod Building, Edmonton, Alberta.
Mine Office: Cadomin, Alberta.
Mine Manager: P. S. Douglas.
Mine Surveyor: N. Clyburn.
Overmen: A. J. Henderson, J. Roberts.
Firebosses: P. Nicholson, S. Chesney, W. Driega, S. Wilson, J. James, F. Gosney, M. Rock.
Thickness of Seam: 35 ft.
Thickness of Cover: 50 ft.
Inclination of Seam: 60 degrees.
Form of Opening: Slope, Shaft, and Strip Mine. Size of Slope: 20 ft. x 12 ft. Size of Shaft: 10 ft. x 10 ft. Depth of Slope: 826 ft. Depth of Shaft: 1,250 ft.
Location of Mine: L.S. 14, Sec. 31, Twp. 46, Rge. 23, W. 5th Mer.
Coal Mining Lease Number: 5061, 5082.
Mine Located on C.N.R.
Registered Trade Name: Cadomin Coal.

Luscar Coals Ltd.—Mine No. 905

Authorized Capital: $650,000.00.
Name of President: Alec M. Mitchell.
Names of Directors: A. Mitchell, Col. Sir Harold P. Mitchell, Bt., A. C. Dunn, M. E., Mayne Reid, K.C., R. M. Jenkinson, W. O. Parlee, K.C.
Name of Secretary-Treasurer: Robert M. Jenkinson.
Head Office: 410 Tegler Building, Edmonton, Alberta.
Mine Office: Luscar, Alberta.
Mine Manager: D. C. Hamilton.
Agent: D. B. Young.
Overmen: W. J. Thomas, R. Mitchell.
Foremen: A. Wright, E. Harrison, R. E. Larson.
Firebosses: J. Jones, D. Davis, R. McLeod, D. McHoney, A. Stene, F. Brown.
Blasters: J. Mitchell, W. Babla, G. Pillichowski.
Thickness of Seam: 35 ft.
Thickness of Cover: 50 ft. to 150 ft.
Inclination of Seam: 60 degrees.
Form of Opening: Drift and Strip Mine.
Location of Mine: L.S. 7, Sec. 23, Twp. 47, Rge. 24, W. 5th Mer.
Coal Mining Lease Number: 5213.
Mine Located on C.N.R.
Registered Trade Name: Luscar Coal.

NORDEGG AREA

Brazeau Collieries Ltd.—Mine No. 256

Authorized Capital: $4,000,000.00.
Name of President: J. A. Boyd.
Names of Directors: J. A. Boyd, W. H. Moore, H. S. Gausby, J. A. Kilpatrick, G. R. Cottrelle.
Name of Secretary-Treasurer: H. S. Gausby.
Head Office: 1720-25 King Street West, Toronto 1, Ontario.
Mine Office: Nordegg, Alberta.
Agent: A. D. Sturrock.
Mine Manager: D. Shanks.
Mine Surveyor: T. H. Hodson.
Overmen: J. B. Touhey, D. Duncan.
Firebosses: J. S. Barton, R. Whyte, A. Blasetti, G. Minue, H. Williams, J. White, A. Pasechnick, J. Beveridge.
Thickness of Seams: No. 2 Seam—6 ft., No. 3 Seam—16 ft.
Thickness of Covers: No. 2—293 ft., No. 3—314 ft.
Inclination of Seam: 12 degrees.
Form of Opening: Slope. Size of Slope: No. 2—12 ft. x 6 ft. No. 3—13 ft. x 12 ft. Depth of Slope: 4,000 ft.
Location of Mine: Twp. 40, Rge. 15, W. 5th Mer.
Coal Mining Lease Number: 5645.
C.N.R. and Truck Mine.
Registered Trade Name: Brazeau Bituminous Steam Coal.

PAKOWKI AREA

M. R. Johnson & E. Davis—Mine No. 1318

Mine Office: Elkwater, Alberta.
Mine Manager: M. R. Johnson.
Mine Surveyor: E. A. Ashburner.
Overman: M. R. Johnson.
Thickness of Seam: 5 ft. 7 in.
Thickness of Cover: 0 to 200 ft.
Inclination of Seam: Horizontal.
Form of Opening: Drift.
Location of Mine: L.S. 10, Sec. 23, Twp. 8, Rge. 3, W. 4th Mer.
Coal Mining Lease Number: 2890.
Truck Mine.
Registered Trade Name: Elkwater Lake Coal.

PEKISKO AREA

Ideal Coal Company—Mine No. 1516

Name of President: Fred L. Irving.
Names of Directors: F. L. Irving, C. Ellis, G. Ellis, D. F. Irving.
Name of Secretary-Treasurer: P. M. Ramsay.
Head Office: 604 Maclean Block, Calgary.
Mine Office: Priddis, Alberta.
Mine Manager: P. M. Ramsay.
Mine Surveyor: W. E. G. Hall.
Overman: Thomas Coulter.
Thickness of Seam: 3 ft. to 6 ft.
Thickness of Cover: 90 ft.
Inclination of Seam: 13 degrees.
Form of Opening: Slope. Size of Slope: 6 ft. x 7 ft. Depth of Slope: 230 ft.
Location of Mine: L.S. 10, Sec. 4, Twp. 22, Rge. 3, W. 5th Mer.
Coal Mining Lease Number: 5614.
C.P.R. and Truck Mine.
Registered Trade Name: Ideal Coal.

PEMBINA AREA

Alberta Southern Coal Co. Ltd.—Mine No. 419

Name of President: Fred Mannix, Jr.
Names of Directors: Fred Mannix Jr., C. C. Cook, S. Fraser, H. M. McDonald.
Name of Secretary: E. W. Costello.
Name of Treasurer: E. Connelly.
Head Office: Taber, Alberta.
Mine Office: Wabamun, Alberta.
Agent: C. C. Cook.
Mine Manager: John Vivyurka.
Mine Surveyor: David Jones.
Foreman: E. A. Bryant.
Thickness of Seam: 13½ ft.
Thickness of Cover: 45 ft.
Inclination of Seam: Horizontal.
Form of Opening: Strip Mine.
Location of Mine: L.S. 16, Sec. 9, Twp. 53, Rge. 4, W. 5th Mer.
Coal Mining Lease Numbers: C.P.R. 572, 663.
Mine Located on C.N.R.
Registered Trade Name: Victory Coal.

Pembina Peerless Coal Co. Ltd.—Mine No. 1495

Mine Office: Entwistle, Alberta.
Mine Manager: Gordon Ostertag.
Mine Surveyor: L. C. Stevens.
Foreman: J. Ostertag.
Thickness of Seam: 4 ft.
Thickness of Cover: 20 ft.
Inclination of Seam: Horizontal.
Form of Opening: Strip Mine.
Location of Mine: N.W. ¼ of Sec. 34, Twp. 53, Rge. 7, W. 5th Mer.
Coal Mining Lease Number: C.S. 238.
Truck Mine.
Registered Trade Name: Pembina Peerless Coal.

Mt. Royal Collieries Ltd.—Mine No. 1592

Mine Office: Edmonton, Alberta.
Mine Manager: E. Belcourt.
Mine Surveyor: D. B. Young.
Foreman: E. Belcourt.
Thickness of Seam: 27 ft.
Thickness of Cover: 15 ft.
Inclination of Seam: Horizontal.
Form of Opening: Strip Mine.
Location of Mine: L.S. 4 & 5, Sec. 29, Twp. 52, Rge. 4, W. 5th Mer.
Coal Mining Lease Number: 5442.
C.N.R. and Truck Mine.
Registered Trade Name: Sun Glow Coal.

Strawberry Creek Coal Co.—Mine No. 1644

Authorized Capital: $20,000.00.
Name of President: L. G. Karsay.
Name of Directors: L. G. Karsay, Joe Balga, Elaine Liba.
Name of Secretary-Treasurer: Elaine Liba.
Head Office: Warburg, Alberta.
Mine Office: Warburg, Alberta.
Mine Manager: L. G. Karsay.
Mine Surveyor: David Jones.
Foreman: G. Martin.
Thickness of Seam: 4 ft.
Thickness of Cover: 20 to 50 ft.
Form of Opening: Strip Mine.
Location of Mine: L.S. 16, Sec. 13, Twp. 49, Rge. 3, W. 5th Mer.
Coal Mining Lease Number: C.P.R. 617.
C.P.R. and Truck Mine.
Registered Trade Name: Strawberry Creek Coal.

Lothian Collieries Ltd.—Mine No. 1645

Authorized Capital: $32,500.00.
Name of President: A. N. Scott.
Names of Directors: A. N. Scott, Wm. Foster, G. Finlay.
Name of Secretary-Treasurer, G. Finlay.
Head Office: 9553 - 102nd Avenue, Edmonton, Alberta.
Mine Office: Wabamun, Alberta.
Mine Manager: Wm. Foster.
Mine Surveyor: Wm. Foster.
Foreman: A. Francey.
Thickness of Seam: 14 ft.
Thickness of Cover: 35 ft.
Inclination of Seam: Horizontal.
Form of Opening: Strip Mine.
Location of Mine: L.S. 10, Sec. 15, Twp. 53, Rge. 4, W. 5th Mer.
Coal Mining Lease Number C.P.R. 628, 5568.
C.N.R. and Truck Mine.
Registered Trade Name: Blue Flame Coal.

J. Lidgett & L. Opheim—Mine No. 1657

Mine Office: Entwistle, Alberta.
Mine Manager: Louis T. Opheim.
Mine Surveyor: L. C. Stevens.
Overman: Louis T. Opheim.
Thickness of Seam: 4½ ft.
Thickness of Cover: 100 ft.
Inclination of Seam: Horizontal.
Form of Opening: Drift.
Location of Mine: S. ½ of L.S. 16 and 9, Sec. 10, Twp. 54, Rge. 7, W. 5th Mer.
Coal Mining Lease Number: 5619.
Truck Mine.
Registered Trade Name: O. & L. Coal.

Pinter Coals Ltd.—Mine No. 1670

Authorized Capital: $75,000.00.
Name of President: A. N. Scott.
Names of Directors: A. N. Scott, G. W. Finlay, W. Foster.
Name of Secretary-Treasurer: G. Finlay.
Head Office: 9553 - 102nd Avenue, Edmonton, Alberta.
Mine Office: Warburg, Alberta.
Agent: W. Foster.
Mine Manager: A. Scott.
Mine Surveyor: A. Scott.
Foreman: J. Pinter.
Thickness of Seam: 2½ ft.
Thickness of Cover: 12 ft. to 15 ft.
Inclination of Seam: Horizontal.
Form of Opening: Strip Mine.
Location of Mine: L.S. 14, Sec. 13, Twp. 49, Rge. 3, W. 5th Mer.
Coal Mining Lease Number: C.P.R. 656, 688.
C.P.R. and Truck Mine.
Registered Trade Name: Pinter Coal.

James Sturms—Mine No. 1687

Mine Office: Genesee, Alberta.
Mine Manager: James Sturms.
Foreman: James Sturms.
Form of Opening: Strip Mine.
Location of Mine: N.E. ¼ of Sec. 15, Twp. 50, Rge. 4, W. 5th Mer.
Coal Mining Lease Number: C.P.R. 654.
Registered Trade Name: Island View Coal.

F. Fodor & W. Fodor—Mine No. 1712

Mine Office: Warburg, Alberta.
Mine Manager: Frank Fodor.
Mine Surveyor: David Jones.
Foreman: Frank Fodor.
Thickness of Seam: 4 ft.
Thickness of Cover: 17 ft.
Form of Opening: Strip Mine.
Location of Mine: N.W. ¼ of Sec. 20, Twp. 49, Rge. 2, W. 5th Mer.
Coal Mining Lease Number: 5934.
Registered Trade Name: Fodor Coal.

PINCHER AREA

Rhodes Mining Co.—Mine No. 1440

Mine Office: Lundbreck, Alberta.
Mine Manager: W. B. Rhodes.
Mine Surveyor: F. Utley.
Overman: W. B. Rhodes.
Thickness of Seam: 6 ft.
Thickness of Cover: Outcrop.
Inclination of Seam: 65 degrees.
Form of Opening: Slope. Size of Slope: 7 ft. x 8 ft. Depth of Slope: 100 ft.
Location of Mine: L.S. 10, Sec. 26, Twp. 7, Rge. 2, W. 5th Mer.
Coal Mining Lease Number: Freehold.
Truck Mine.
Registered Trade Name: Quick Flame Coal.

PRAIRIE CREEK AREA

Dunn & Finlay—Mine No. 1296

Mine Office: Hinton, Alberta.
Head Office: 9553 - 102nd Avenue, Edmonton, Alberta.
Mine Manager: Wayne Clark.
Foreman: Wayne Clark.
Location of Mine: L.S. 3 & 6, Sec. 19, Twp. 51, Rge. 24, W. 5th Mer.
Coal Mining Lease Number: 5646.
Truck Mine.
Registered Trade Name: Yellowhead Coal.

H. Schnur—Mine No. 1714

Mine Office: Hinton, Alberta.
Mine Manager: H. Schnur.
Mine Surveyor: L. C. Stevens.
Overmen: H. Schnur, C. M. Woodley.
Thickness of Seam: 5 ft.
Thickness of Cover: 37 ft.
Form of Opening: Slope. Size of Slope: 6 ft. x 9 ft. Depth of Slope: 100 ft.
Location of Mine: L.S. 7, Sec. 11, Twp. 51, Rge. 25, W. 5th Mer.
Coal Mining Lease Number: 5924.
C.N.R. and Truck Mine.
Registered Trade Name: Industrial Coal.

REDCLIFF AREA

Ajax Coal Co.—Mine No. 772

Mine Office: Medicine Hat, Alberta.
Mine Manager: R. Radke.
Mine Surveyor: J. F. Hamilton.
Overman: M. Valentini.
Thickness of Seam: 7½ ft.
Thickness of Cover: 235 ft.
Inclination of Seam: Horizontal.
Form of Opening: Drift.
Location of Mine: L.S. 2, Sec. 5, Twp. 13, Rge. 6, W. 4th Mer.
Coal Mining Lease Number: C.P.R.
C.P.R. and Truck Mine.
Registered Trade Name: Ajax Coal.

RED DEER AREA

Sundre Coal—Mine No. 1448

Authorized Capital: $16,000.00.
Names of Directors: E. J. Shackleton, John Forsyth, Charles Gillies, Calvin Tupper.
Head Office: Olds, Alberta.
Mine Office: Olds, Alberta.
Mine Manager: John Forsyth.
Mine Surveyor: W. E. G. Hall.
Overman: John Forsyth.
Thickness of Seam: 3 ft. to 4 ft.
Thickness of Cover: 60 ft.
Inclination of Seam: 42 degrees.
Form of Opening: Slope. Size of Slope: 6 ft. x 6 ft. Depth of Slope: 55 ft.
Location of Mine: L.S. 13, Sec. 5, Twp. 32, Rge. 6, W. 5th Mer.
Coal Mining Lease Number: 5692.
Truck Mine.
Registered Trade Name: Sundre Coal.

ROCHESTER AREA

Marwood S. Alexander—Mine No. 1686

Mine Office: Edmonton, Alberta.
Mine Manager: M. Alexander.
Foreman: M. Alexander.
Thickness of Seam: 4 ft.
Form of Opening: Strip Mine.
Location of Mine: L.S. 8, Sec. 11, Twp. 66, Rge. 24, W. 4th Mer.
Coal Mining Lease Number: S.L. 555.
Truck Mine.
Registered Trade Name: Baptiste Coal.

SAUNDERS AREA

Bighorn & Saunders Creek Collieries Ltd. Mine No. 388

Authorized Capital: $300,000.00.
Name of President: R. P. Charbonnier.
Names of Directors: R. P. Charbonnier, Mrs. M. Charbonnier, W. G. Pearson.
Name of Secretary-Treasurer: A. R. Granger.
Head Office: Blairmore, Alberta.
Mine Office: Saunders, Alberta.
General Manager: R. P. Charbonnier.
Mine Manager: T. Campbell.
Mine Surveyor: A. E. Williams.
Overman: L. C. Gladwin.
Firebosses: R. Cowley, J. Nelson, F. Rich.
Thickness of Seam: 4 ft. 9 in.
Thickness of Cover: 300 ft.
Inclination of Seam: 7 degrees.
Form of Opening: Slope. Size of Slope: 8 ft. x 6 ft. Depth of Slope: 2200 ft.
Location of Mine: N. & S. ½ L.S. 8 & 9, Sec. 24, Twp. 40, Rge. 13, W. 5th Mer.
Coal Mining Lease Number: 5334.
Mine Located on C.N.R.
Registered Trade Name: Bighorn and Saunders Creek Coal.

Alexo Coal Co. Ltd.—Mine No. 852

Authorized Capital: $200,000.00.
Name of President: P. F. Pullen.
Names of Directors: P. F. Pullen, F. Pullen, C. C. Clark, P. M. Higgins, E. G. Pullen.
Name of Secretary-Treasurer: E. G. Pullen.
Head Office: Alexo, Alberta.
Mine Office: Alexo, Alberta.
General Manager: P. F. Pullen.
Mine Manager: R. Tennant.
Mine Surveyor: P. F. Pullen.
Overman: W. Barclay.
Firebosses: M. Sernecky, A. Pollitt.
Thickness of Seam: 5 ft.
Thickness of Cover: 560 ft.
Inclination of Seam: 9 degrees.
Form of Opening: Slope. Size of Slope: 6 ft. x 10 ft. Depth of Slope: 2700.
Location of Mine: N.W. ¼ L.S. 9, Sec. 27, Twp. 40, Rge. 13, W. 5th Mer.
Coal Mining Lease Number: 1570.
Mine Located on C.N.R.
Registered Trade Name: Alexo and Acorn Saunders Coal.

SHEERNESS AREA

Chinook Coal Co. Ltd.—Mine No. 443

Authorized Capital: $50,000.00.
Name of President: C. Gallinger.
Names of Directors: C. Gallinger, Mrs. Jean Gallinger, W. Gallinger, R. L. Wood, Mrs. R. L. Wood.
Name of Secretary-Treasurer: R. L. Wood.
Mine Office: Sheerness, Alberta.
Mine Manager: R. L. Wood.
Mine Surveyor: D. Jones.
Foreman: F. Heaston.
Thickness of Seam: 5 ft.
Thickness of Cover: 15 ft. to 20 ft.

Inclination of Seam: Horizontal.
Form of Opening: Strip Mine.
Location of Mine: L.S. 1, Sec. 12, Twp. 29, Rge. 13, W. 4th Mer.
Coal Mining Lease Numbers: 5183, 434, 559.
C.N.R. and Truck Mine.
Registered Trade Name: Sheerness Chinook Coal.

T. G. Ironside & A. Glover—Mine No. 1398

Mine Office: Scapa, Alberta.
Mine Manager: T. G. Ironside.
Mine Surveyor: D. Jones.
Foreman: T. G. Ironside.
Thickness of Seam: 3 ft.
Thickness of Cover: 12 ft.
Inclination of Seam: Horizontal.
Form of Opening: Strip Mine.
Location of Mine: L.S. 12, Sec. 5, Twp. 34, Rge. 13, W. 4th Mer.
Coal Mining Lease Number: C.P.R. 468A.
Registered Trade Name: Ironside Coal.

Fred M. Pahl—Mine No. 1401

Mine Office: Hanna, Alberta.
Mine Manager: Fred M. Pahl.
Mine Surveyor: David Jones.
Foreman: Otto Pahl.
Thickness of Seam: 2 ft.
Thickness of Cover: 12 ft.
Inclination of Seam: Horizontal.
Form of Opening: Strip Mine.
Location of Mine: E. & W. ½ of 7 & 8, Sec. 30, Twp. 32, Rge. 13, W. 4th Mer.
Coal Mining Lease Number: 5083.
Truck Mine.
Registered Trade Name: Eureka Coal.

Sheerness Coal Co. Ltd.—Mine No. 1432

Authorized Capital: $10,000.00.
Name of President: Claude Gallinger.
Names of Directors: Claude Gallinger, Mrs. Jean Gallinger.
Name of Secretary-Treasurer: R. L. Wood.
Mine Office: Sheerness, Alberta.
Mine Manager: R. L. Wood.
Mine Surveyor: D. Jones.
Foreman: B. H. Bishop, H. Sward.
Blaster: H. Sward.
Thickness of Seam: 4 ft. to 5 ft.
Thickness of Cover: 25 ft to 30 ft.
Inclination of Seam: Horizontal.
Form of Opening: Strip Mine.
Location of Mine: L.S. 5, Sec. 19, Twp. 29, Rge. 12, W. 4th Mer.
Coal Mining Lease Number: 5027.
Registered Trade Name: Sheebo Coal.

John Masciangelo & Partners—Mine No. 1553

Mine Office: Delia, Alberta.
Mine Manager: John Masciangelo.
Mine Surveyor: David Jones.
Overman: John Masciangelo.
Thickness of Seam: 3 ft. 9 in.
Thickness of Cover: 20 ft. to 50 ft.
Inclination of Seam: Horizontal.
Form of Opening: Drift.
Location of Mine: L.S. 9, 10, 15 & 16, Sec. 21, Twp. 30, Rge. 17, W. 4th Mer.
Coal Mining Lease Number: 5368.
Registered Trade Name: Blossom Mine Coal.

Crystal Mine—Mine No. 1597

Mine Office: Hanna, Alberta.
Mine Manager: A. J. Bordula.
Mine Surveyor: D. Jones.
Foreman: E. A. Bordula.
Thickness of Seam: 7½ ft.
Thickness of Cover: 16 ft.
Inclination of Seam: Horizontal.
Location of Mine: L.S. 16, Sec. 12, Twp. 29, Rge. 13, W. 4th Mer.
Form of Opening: Strip Mine.
Coal Mining Lease Number: 5289.
Truck Mine.
Registered Trade Name: Crystal Coal.

TABER AREA

Omer J. Malo—Mine No. 228

Authorized Capital: $30,000.00.
Name of President: Omer J. Malo.
Names of Directors: Omer J. Malo, Bernadette Malo.
Name of Secretary: Bernadette Malo.
Mine Office: Taber, Alberta.
Mine Manager: Omer J. Malo.
Mine Surveyor: J. F. Hamilton.
Overman: Evan Evans.
Thickness of Seam: 44 in.
Thickness of Cover: 140 ft.
Inclination of Seam: Horizontal.
Form of Opening: Drift.
Location of Mine: L.S. 1, Sec. 19, Twp. 10, Rge. 16, W. 4th Mer.
Coal Mining Lease Number: 6029.
Truck Mine.
Registered Trade Name: White Ash Coal.

C. R. Cooke—Mine No. 672

Authorized Capital: $12,000.00.
Head Office: 331 - 4th Street, Medicine Hat, Alberta.
Mine Office: Medicine Hat, Alberta.
Mine Manager: C. R. Cooke.
Thickness of Seam: 4 ft. to 6 ft.
Thickness of Cover: 135 ft.
Inclination of Seam: Horizontal.
Form of Opening: Drift.
Location of Mine: L.S. 3, Sec. 27, Twp. 12, Rge. 10, W. 4th Mer.
Coal Mining Lease Numbers: C.P.R. 9, 5353.
C.P.R. and Truck Mine.
Registered Trade Name: Red-Glo Coal.

D. McCracken & Goering—Mine No. 838

Mine Office: Suffield, Alberta.
Mine Manager: Duncan McCracken.
Mine Surveyor: E. Ashburner.
Overman: Duncan McCracken.
Thickness of Seam: 5 ft.
Thickness of Cover: 160 ft.
Inclination of Seam: Horizontal.
Form of Opening: Drift.
Location of Mine: L.S. 7, Sec. 28, Twp. 12, Rge. 10, W. 4th Mer.
Coal Mining Lease Number: 5203.
Truck Mine.
Registered Trade Name: Sunny South Coal.

Continental Coal Corporation Ltd. Mine No. 1334

Authorized Capital: $2,000,000.00.
Name of President: Victor W. Campbell.
Names of Directors: V. W. Campbell. Walter Schlosser, W. Dubois.
Name of Secretary-Treasurer: D. S. Williamson.
Mine Office: Grassy Lake.
Mine Manager: J. P. Neufeld.
Mine Surveyor: J. F. Hamilton.
Foreman: J. P. Neufeld.
Thickness of Seam: 3 ft.
Thickness of Cover: 21 ft.
Inclination of Seam: Horizontal.
Form of Opening: Strip Mine.
Location of Mine: L.S. 1, 7 & 8, Sec. 26, Twp. 9, Rge. 13, W. 4th Mer.
Coal Mining Lease Number: H.B.C. 124.
C.P.R. and Truck Mine.
Registered Trade Name: Alburna Coal.

Oliver Coal Mine—Mine No. 1536

Mine Office: Taber, Alberta.
Mine Manager: Lewis Oliver.
Mine Surveyor: J. F. Hamilton.
Overman: Evan Evans.
Thickness of Seam: 3 ft.
Thickness of Cover: 100 ft.
Inclination of Seam: Horizontal.
Location of Mine: L.S. 2, Sec. 18, Twp. 10, Rge. 16, W. 4th Mer.
Coal Mining Lease Numbers: M.S. 438, 462.
Truck Mine.
Registered Trade Name: Oliver Senior Coal.

Alberta Southern Coal Co. Ltd.—Mine No. 1604

Authorized Capital: $150,000.00.
Name of President: C. C. Cook.
Names of Directors: F. Mannix, S. A. Fraser, H. M. MacDonald.
Name of Secretary-Treasurer: E. Castello.
Mine Office: Taber, Alberta.
Agent: C. C. Cook.
Mine Manager: A. G. MacAulay.
Foreman: George Wanner.
Thickness of Seam: 4 ft.
Thickness of Cover: 36 ft.
Inclination of Seam: Horizontal.
Form of Opening: Strip Mine.
Location of Mine: Sec. 12, Twp. 10, Rge. 17, W. 4th Mer.
Coal Mining Lease Numbers: M. S. 433, 555.
C.P.R. and Truck Mine.
Registered Trade Name: Southalta Coal.

J. P. Neufeld—Mine No. 1705

Mine Office: Grassy Lake, Alberta.
Mine Manager: J. P. Neufeld.
Mine Surveyor: J. F. Hamilton.
Foreman: J. P. Neufeld.
Thickness of Seam: 2 ft.
Thickness of Cover: 30 ft.
Inclination of Seam: Horizontal.
Form of Opening: Strip Mine.
Location of Mine: N. & S. ½ of L.S. 4 & 5, Sec. 25, Twp. 9, Rge. 13, W. 4th Mer.
Coal Mining Lease Number: S.L. 545.
C.P.R. and Truck Mine.
Registered Trade Name: Neucoal Mines.

TOFIELD AREA

Emil Skarin—Mine No. 215

Head Office: 11115 - 89 Avenue, Edmonton, Alberta.
Mine Office: Dodds, Alberta.
General Manager: Emil Skarin.
Mine Manager: George Foss.
Mine Surveyor: David Jones.
Foreman: George Foss.
Blaster: George Foss.
Thickness of Seam: 3 ft. to 7 ft.
Thickness of Cover: 14 to 22 ft.
Inclination of Seam: Horizontal.
Form of Opening: Strip Mine.
Location of Mine: L.S. 7, Sec. 14, Twp. 49, Rge. 18, W. 4th Mer.
Coal Mining Lease Number: 5544.
C.N.R. and Truck Mine.
Registered Trade Name: North Star Coal.

Tofield Coal Co. Ltd.—Mine No. 252

Authorized Capital: $130,000.00.
Name of President: Claude Gallinger.
Names of Directors: Claude Gallinger, Mrs. Jean Gallinger.
Name of Secretary-Treasurer: Wilber Gallinger.
Head Office: Tofield, Alberta.
Mine Office: Tofield, Alberta.
General Manager: Claude Gallinger.
Mine Manager: Norman E. Scott.
Mine Surveyor: David Jones.
Foreman: Anton Johnson.
Blaster: Anton Johnson.
Thickness of Seam: 6 ft.
Thickness of Cover: 20 ft.
Inclination of Seam: Horizontal.
Form of Opening: Strip Mine.
Location of Mine: N. ½ of Sec. 26, Twp. 50, Rge. 19, W. 4th Mer.
Coal Mining Lease Number: H.B.C.
C.N.R. and Truck Mine.
Registered Trade Name: Headlight Coal.

Black Nugget Coal Co. Ltd.—Mine No. 1107

Authorized Capital: $28,000.00.
Name of President: F. L. Irving.
Names of Directors: F. L. Irving, D. F. Irving, C. Ellis.
Name of Secretary-Treasurer: S. H. Roe.
Head Office: 604 Maclean Block, Calgary, Alberta.
Mine Office: Dodds, Alberta.
General Manager: D. F. Irving.
Mine Manager: W. B. Mainland.
Mine Surveyor: D. Jones.
Foreman: K. Ovelson, F. Kinjerski.
Blaster: N. Pooke.
Thickness of Seam: 5 ft.
Thickness of Cover: 25 ft.
Inclination of Seam: Horizontal.
Form of Opening: Strip Mine.
Location of Mine: L.S. 15, Sec. 11, Twp. 49, Rge. 18, W. 4th Mer.
C.N.R. and Truck Mine.
Registered Trade Name: Hi-Lo Coal.

Ryley Coal Co. Ltd.—Mine No. 1206

Authorized Capital: $6,000.00.
Head Office: Ryley, Alberta.
Mine Office: Ryley, Alberta.
Mine Manager: Mike Zacharchuk.
Mine Surveyor: D. Jones.
Overman: Mike Zacharchuk.
Thickness of Seam: 7 ft.
Thickness of Cover: 12 ft.
Inclination of Seam: Horizontal.
Form of Opening: Slope. Size of Slope: 9 ft. x 7 ft. Depth of Slope: 55 ft.
Location of Mine: L.S. 1 & 8, Sec. 8, Twp. 49, Rge. 17, W. 4th Mer.
Coal Mining Lease Number: H.B.C. 125.
Truck Mine.
Registered Trade Name: Ryley Coal.

Christopher Binder—Mine No. 1624

Authorized Capital: $12,000.00.
Mine Office: Ryley, Alberta.
Mine Manager: C. Binder.
Mine Surveyor: D. Jones.
Overman: C. Binder.
Foreman: C. Binder.
Thickness of Seam: 10 ft.
Thickness of Cover: 20 ft.
Inclination of Seam: Horizontal.
Form of Opening: Slope and Strip Mine. Size of Slope: 7 ft. x 8 ft. Depth of Slope: 70 ft.
Location of Mine: L.S. 5, Sec. 9, Twp. 49, Rge. 17, W. 4th Mer.
Coal Mining Lease Number: C.P.R. 613.
C.N.R. and Truck Mine.
Registered Trade Name: Ryalta Coal.

WESTLOCK AREA

John Melesko—Mine No. 1517

Mine Office: Thorhild, Alberta.
Mine Manager: John Melesko.
Mine Surveyor: David Jones.
Foreman: John Melesko.

Thickness of Seam: 5 ft.
Thickness of Cover: 12 ft.
Inclination of Seam: Horizontal.
Form of Opening: Strip Mine.
Location of Mine: N. & S. ½ of L.S. 12 & 13, Sec. 12, Twp. 60, Rge. 21, W. 4th Mer.
Coal Mining Lease Number: 5275.
Truck Mine.
Registered Trade Name: Dandy Coal.

Picardville Coal Co.—Mine No. 1523

Mine Office: Picardville, Alberta.
Mine Manager: A. J. Beardsley.
Mine Surveyor: D. Jones.
Foreman: A. J. Beardsley.
Thickness of Seam: 6 ft.
Thickness of Cover: 18 ft. to 37 ft.
Inclination of Seam: Horizontal.
Form of Opening: Strip Mine.
Location of Mine: E. ½ of L.S. 8, Sec. 35, Twp. 58, Rge. 27, W. 4th Mer.
Coal Mining Lease Number: 5567.
Truck Mine.
Registered Trade Name: Picardville Coal.

North Point Coal Co. Ltd.—Mine No. 1562

Authorized Capital: $30,000.00.
Name of President: L. Kaszuba.
Names of Directors: L. Kaszuba, T. Dombroski.
Name of Secretary-Treasurer: T. Dombroski.
Mine Office: Thorhild, Alberta.
Mine Manager: T. Dombroski.
Mine Surveyor: D. Jones.
Foreman: T. Dombroski.
Thickness of Seam: 5 ft.
Thickness of Cover: 12 ft.
Inclination of Seam: Horizontal.
Form of Opening: Strip Mine.
Location of Mine: L.S. 1, Sec. 11, Twp. 60, Rge. 21, W. 4th Mer.
Coal Mining Lease Number: S.L. 526.
Truck Mine.
Registered Trade Name: North Point Coal.

WETASKIWIN AREA

Peter Gill—Mine No. 1534

Mine Office: Thorsby, Alberta.
Mine Manager: Joe Gill.
Mine Surveyor: D. B. Young.
Overman: Joe Gill.
Thickness of Seam: 5 ft.
Thickness of Cover: 80 ft.
Inclination of Seam: Horizontal.
Form of Opening: Drift.
Location of Mine: L.S. 3 & 6, Sec. 3, Twp. 48, Rge. 27, W. 4th Mer.
Coal Mining Lease Number: C.P.R. 553A.
Registered Trade Name: Canyon Creek Coal.

WHITECOURT AREA

Alex Watson—Mine No. 1569

Mine Office: Blue Ridge, Alberta.
Mine Manager: Alex Watson.
Mine Surveyor: David Jones.
Foreman: Alex Watson.
Thickness of Seam: 3½ ft.
Thickness of Cover: 10 ft. to 32 ft.
Inclination of Seam: Horizontal.
Form of Opening: Strip Mine.
Location of Mine: Pt. of L.S. 13 & 12, Sec. 19, Twp. 59, Rge. 10, W. 5th Mer.
Coal Mining Lease Number: 5354.
Truck Mine.
Registered Trade Name: Blue Ridge Coal.

PARTICULARS OF OPERATING QUARRIES DURING 1951 BY AREAS

CASCADE AREA

Canada Cement Co. Ltd.—Quarry No. Q2

Head Office: Canada Cement Co. Bldg., Philips Square, Montreal 2, Quebec.
Quarry Office: Exshaw, Alberta.
Quarry Manager: K. E. Alexander.
Foremen: M. Walker, A. O. Smanitto.
Blasters: L. Worrel, J. McKenzie.
Thickness of Deposit: 160 ft.
Type of Mineral Extracted: Shale Limestone.
Purpose Used: Manufacture of Cement.
Location of Quarry: Pts. Secs. 27 & 28, Twp. 24, Rge. 9, W. 5th Mer.
Lease Number: Q105.

Loder's Lime Co. Ltd.—Quarry No. Q3

Quarry Office: Exshaw, Alberta.
Quarry Manager: T. A. Barton.
Foreman: H. Parker.
Blaster: M. Rassmusen.
Thickness of Deposit: 100 ft.
Type of Mineral Extracted: Limestone.
Purpose Used: Manufacture of Lime.
Location of Quarry: Pts. Secs. 25 & 36, Twp. 24, Rge. 9, W. 5th Mer.
Lease Number: Q126.

Rock Wool Products Ltd.—Quarry No. Q13

Quarry Office: Exshaw, Alberta.
Quarry Manager: L. Roberts.
Foreman: L. Roberts.
Blaster: K. Sinclair.
Thickness of Deposit: 200 ft.
Thickness of Overburden: 8 ft.
Type of Mineral Extracted: Shale (Banff).
Purpose Used: For making Insulation Wool.
Location of Quarry: Sec. 19, Twp. 24, Rge. 9, W. 5th Mer.

Gypsum, Lime & Alabastine Canada Ltd. Quarry No. Q15

Head Office: Paris, Ontario.
Quarry Office: 30 - 17th Ave., S.E. Calgary, Alberta.
Quarry Manager: Arthur Pitt.
Foreman: Arthur Pitt.
Thickness of Deposit: 500 ft.
Type of Mineral Extracted: Shale.
Purpose Used: Mineral Wool Manufacture.
Location of Quarry: Sec. 26, Twp. 24, Rge. 9, W. 5th Mer.
Lease Number: Q125.

CROWSNEST AREA

Summit Lime Works Ltd.—Quarry No. Q8

Quarry Office: Crowsnest, B.C.
Quarry Manager: R. D. Rose.
Foreman: John Grubisich.
Blasters: Isamu Yamakawa, Torac Hayashi.
Thickness of Deposit: 100 ft. to 200 ft.
Thickness of Overburden: 0 to 30 ft.

Type of Mineral Extracted: Limestone.
Purpose Used: Quicklime, Hydrated Lime, Feed Grits, Commercial Limestone.
Location of Quarry: L.S. 7, Sec. 7, Twp. 8, Rge. 5, W. 5th Mer.

DRUMHELLER AREA

Gordon L. Kidd—Quarry No. Q11

Quarry Office: Box 230, Drumheller, Alberta.
Quarry Manager: Gordon L. Kidd.
Foreman: Gordon L. Kidd.
Blaster: Gordon L. Kidd.
Thickness of Deposit: 4 ft.
Thickness of Overburden: 0 to 200 ft.
Type of Mineral Extracted: Bentonite.
Purpose Used: Drilling Operations.
Location of Quarry: L.S. 6, 7, 9 & 10, Sec. 14, Twp. 29, Rge. 20, W. 4th Mer.
Lease Number: A.Q.C.

EDMONTON AREA

J. B. Little & Sons Ltd.—Quarry No. Q1

Quarry Office: 9120 - 100 Avenue, Edmonton, Alberta.
Quarry Manager: John Little.
Foreman: Dave Little.
Thickness of Deposit: 15 ft.
Thickness of Overburden: 1 ft.
Type of Mineral Extracted: Clay.
Purpose Used: Brick Making.
Location of Quarry: Blk. A. & B. R.L. 20 in Twp. 53, Rge. 24, W. 4th Mer.

Acme Brick & Tile Co.—Quarry No. Q5

Quarry Office: Cannell, Alberta.
Quarry Manager: Col. Dunn.
Foreman: J. Henry.
Thickness of Deposit: 23 ft.
Thickness of Overburden: 1 ft.
Type of Mineral Extracted: Clay.
Purpose Used: Brick and Tile Making.
Location of Quarry: N.E. ¼ of Sec. 21, Twp. 53, Rge. 25, W. 4th Mer.

HALCOURT AREA

K. J. Dalen—Quarry No. Q16

Quarry Office: Box 1722, Grande Prairie, Alberta.
Quarry Manager: K. J. Dalen.
Foreman: K. J. Dalen.
Thickness of Deposit: 6 ft.
Thickness of Overburden: 6 inches.
Type of Mineral Extracted: Clay.
Purpose Used: Brick Making.
Location of Quarry: Pt. N.E. ¼ of Sec. 14, Twp. 71, Rge. 6, W. 6th Mer.

REDCLIFF AREA

Gunderson Brick & Coal Co. Ltd. Quarry No. Q4

Quarry Office: Redcliff, Alberta.
Quarry Manager: J. A. Perry.
Foreman: George Ross.
Blaster: George Ross.
Thickness of Deposit: 50 ft.
Type of Mineral Extracted: Shale.
Purpose Used: Brick and Tile Manufacture.
Location of Quarry: L.S. 11 & 15, Sec. 5, Twp. 13, Rge. 6, W. 4th Mer.

Redcliff Premier Brick Co. Ltd.—Quarry No. Q6

Quarry Office: Redcliff, Alberta.
Quarry Manager: G. A. Sissons.
Foreman: J. Dumont.
Blaster: J. Dumont.
Thickness of Deposit: 40 ft.
Thickness of Overburden: 0 ft.
Type of Mineral Extracted: Shale.
Purpose Used: Brick Manufacture.
Location of Quarry: N.W. ¼ of Sec. 9, Twp. 13, Rge. 6, W. 4th Mer.

Redcliff Pressed Brick Co. Ltd.—Quarry No. Q7

Quarry Office: Redcliff, Alberta.
Agent: H. M. Sangster.
Quarry Manager: G. A. Sissons.
Foreman: J. Jasman.
Blaster: J. Jasman.
Thickness of Deposit: 80 ft.
Type of Mineral Extracted: Shale.
Purpose Used: Brick Manufacture.
Location of Quarry: S.W. ¼ of Sec. 9, Twp. 13, Rge. 6, W. 4th Mer.

Medicine Hat Brick & Tile Co. Ltd. Quarry No. Q9

Quarry Office: Medicine Hat, Alberta.
Quarry Manager: G. H. Sissons.
Foreman: R. A. Rothwell.
Blaster: R. A. Rothwell.
Thickness of Deposit: 60 ft.
Thickness of Overburden: 8 ft.
Type of Mineral Extracted: Clay.
Purpose Used: Brick and Tile Manufacture.
Location of Quarry: L.S. 13, Sec. 28, Twp. 12, Rge. 5, W. 4th Mer.

Medicine Hat Sand & Gravel Co.—Quarry No. Q14

Quarry Office: Medicine Hat, Alberta.
Quarry Manager: Roy Pettigrew.
Foreman: Roy Pettigrew.
Thickness of Deposit: 50 ft.
Thickness of Overburden: 27 ft.
Type of Mineral Extracted: Shale.
Purpose Used: Brick and Tile Manufacture.
Location of Quarry: Sec. 31, Twp. 12, Rge. 4, W. 4th Mer.

The following table gives particulars of mines which were in operation during the year 1951 in the Province:

LIST OF MINES

Mine No.	Operator	Address	Location L.S.S. T. R. M.	Character of Coal	Date of Opening
	Ardley Area				
* 255	R.R. Straub	Alix	S.W. ¼ of 5-17-38-23-4	Sub-bituminous	1910
* 809	J.W. Sissons	Alix	3,4,5,6,15&16-33-38-23-4	Sub-bituminous	1919
* 969	Karl Schnepf	Delburne	14-10-38-22-4	Sub-bituminous	1921
1135	Carl Kurp	Delburne	4&5- 7-38-23-4	Sub-bituminous	1924
*1488	Allyn Mann Construction Co.	Alix	E. ½ of 3&4-29-38-23-4	Sub-bituminous	1935
*1613	Elnora Construction Co. Ltd.	Elnora	10-20-38-23-4	Sub-bituminous	1943
*1673	D.M. Gordon	Warden	W.& E. ½ 1&2-15-38-22-4	Sub-bituminous	1948
*1675	John Lynass	Delburne	13- 8-38-23-4	Sub-bituminous	1948
1716	Alphonso Blair	Delburne	16- 8-36-22-4	Sub-bituminous	1950
	Big Valley Area				
* 864	Big Valley Collieries(Alberta) Ltd.	Big Valley	N.W. ¼ 36-35-20-4	Sub-bituminous	1920
*1661	Robert Camekin & Sons	Lousana	7&13-13-36-22-4	Sub-bituminous	1947
*1708	George L. Grant	Fenn	1- 9-35-20-4	Sub-bituminous	1949
	Brooks Area				
*1404	Kleenbirn Collieries	Eyremore	Pts. of 17-17-4	Sub-bituminous	1932
1672	R.C. Oliver	Cassils	11- 2-14-13-4	Sub-bituminous	1950
	Camrose Area				
* 241	Joe Proskow	Dinant	4-18-48-19-4	Sub-bituminous	1910
* 724	S.H. Burnstad	Ohaton	N.& S. ½ 3&6-14-48-18-4	Sub-bituminous	1917
*1524	George Shute & Partners	Dinant	8&9- 7-48-19-4	Sub-bituminous	1937
*1603	Alberta Coal Co. Ltd.	Camrose	2,6,7,10,11&15-29-46-19-4	Sub-bituminous	1943
*1055	A.A. Campbell & C.A. Fergstad	Round Hill	Pts. of 7,8&10-30-48-18-4	Sub-bituminous	1950

The following table gives particulars of mines which were in operation during the year 1951 in the Province:

LIST OF MINES

Mine No.	Operator	Address	Location L.S.S. T. R. M.	Character of Coal	Date of Opening
	Carbon Area				
53	Alfred Fox	Carbon	S.W. ¼ of 3-14-29-23-4	Sub-bituminous	1898
* 194	A.A. McArthur	Three Hills	N.E. ¼ of 4-31-22-4	Sub-bituminous	1909
384	Inland Coal Co. Ltd	Three Hills	16-26-31-24-4	Sub-bituminous	1913
710	East Trochu Coal Mine	Trochu	9,10,15&16-14-33-23-4	Sub-bituminous	1917
817	Ben Pickering	Ghost Pine Creek	S. ½ of 1&2- 6-31-21-4	Sub-bituminous	1919
921	Eric Reissig	Trochu	15&16-14-33-23-4	Sub-bituminous	1921
1060	East Carbon Coal Co. Ltd	Carbon	12&13- 7-29-22-4	Sub-bituminous	1922
1226	C.C. Campbell	Trochu	W. ½ of 9-29-33-22-4	Sub-bituminous	1926
1283	H.J. Halbert & F. Beierle	Trochu	S.E. ¼ of 9-14-33-23-4	Sub-bituminous	1928
1359	Balogh Brothers	Carbon	16-12-29-23-4	Sub-bituminous	1931
*1499	Nuttal & Davidson	Three Hills	1&2- 9-31-22-4	Sub-bituminous	1936
*1719	Alvin Notland	Morrin	16-21-31-21-4	Sub-bituminous	1950
*1723	Eugene Beaudet	Munson	9-21-31-21-4	Sub-bituminous	1951
	Cascade Area				
2	The Canmore Mines Ltd	Canmore	N.E. Pt. of 1-29-24-10-5	Bituminous	1891
1244	Frank Wheatley & Sons	Banff	12- 4-26-11-5	Bituminous	1926
1667	Kananaskis Exploration & Development Co. Ltd	Seebe	3-23- 9-5	Bituminous	1947
	Castor Area				
251	J. Tyrlik & S. Musat	Heisler	9-28-42-17-4	Sub-bituminous	1910
* 291	James Chiswick	Cadsby	N.&S. ½ 11&6-28-39-16-4	Sub-bituminous	1911
447	A.J. James & J.R. James	Forestburg	13-28-40-15-4	Sub-bituminous	1914
615	Komperdo & Partners	Heisler	13-22-42-17-4	Sub-bituminous	1915
902	O.V. Remillard	Castor	15&16-33-37-14-4	Sub-bituminous	1921
* 953	D.H. Wiltse, A.J. Cordel & T. Pilsworth	Forestburg	S.E. ¼ of 1-32-40-15-4	Sub-bituminous	1921
*1046	Alberta Coal Co. Ltd	Halkirk	6,7&8-20-40-15-4	Sub-bituminous	1922

LIST OF MINES - Continued

Mine No.	Operator	Address	Location L.S.S. T. R. M.	Character of Coal	Date of Opening
1062	Charles Strader	Halkirk	4-17-39-15-4	Sub-bituminous	1922
1232	J.H. Ainsworth	Halkirk	13-25-40-16-4	Sub-bituminous	1926
1237	Daniel Dryden	Halkirk	11- 8-39-15-4	Sub-bituminous	1926
1248	B.J. Gerla & W. Runge	Donalda	10&11-29-41-17-4	Sub-bituminous	1926
*1343	Joseph Haden	Castor	3&6- 3-38-14-4	Sub-bituminous	1950
1417	James Easton	Castor	S.W. ¼ of 14-34-37-14-4	Sub-bituminous	1933
1435	Thomas Mitchinson	Donalda	N. & S. ½ 6&11- 2-44-19-4	Sub-bituminous	1933
1441	Leonard Buckle	Donalda	5,12&13-16-42-17-4	Sub-bituminous	1933
1572	William Jones Sr.	Donalda	N. & S. ½ 4&5-28-41-17-4	Sub-bituminous	1940
*1578	Forestburg Collieries Ltd.	Forestburg	15&16-36-40-16-4	Sub-bituminous	1941
1587	J.J. Mills	Heisler	S.W.&S.E.¼ 11&12-22-42-17-4	Sub-bituminous	1942
*1614	Stettler Coal Co.	Stettler	16-26-40-16-4	Sub-bituminous	1943
*1634	F.N. Wiltse	Halkirk	W. ½ of 11-32-39-15-4	Sub-bituminous	1945
*1650	John Lynass	Forestburg	9-32-40-15-4	Sub-bituminous	1946
1689	N. MacPherson & D.P. Kroetsch	Heisler	8-21-42-17-4	Sub-bituminous	1949
*1691	A.J. Shannon & J. Lang	Halkirk	Pts. of 11&12-19-40-15-4	Sub-bituminous	1949
1697	Michael R. Muyres & Sons	Forestburg	7&10-32-40-15-4	Sub-bituminous	1949
1702	Dolanz, Dolanz & Strickland	Heisler	3&4-27-42-17-4	Sub-bituminous	1949
1711	Filipenko Brothers	Stettler	N½11,13,S.¼14,15-25-40-16-4	Sub-bituminous	1950
1713	Wisla Brothers	Castor	1&2- 8-43-17-4	Sub-bituminous	1950
1718	W.A. Jones	Rosalind	9,10,15,16-29-42-17-4	Sub-bituminous	1950
	Champion Area				
136	George Rhodes	Champion	7- 8-15-22-4	Sub-bituminous	1907
1137	Carlo Travaglia	Champion	W. 3/4 of 2&3- 4-16-23-4	Sub-bituminous	1950
1509	P. Fontana & Sons	Champion	15-33-15-23-4	Sub-bituminous	1937
1565	Mike Popovich	Champion	9- 8-16-23-4	Sub-bituminous	1939
1717	W. Russell	Carmangay	1&2-36-14-22-4	Sub-bituminous	1950

LIST OF MINES - Continued

Mine No.	Operator	Address	Location L.S.S. T. R. M.	Character of Coal	Date of Opening
	Coalspur Area				
* 769	Sterling Coal Valley Mining Co.Ltd.	Sterco	12-35-47-20-5	Bituminous	1918
771	Foothills Collieries Ltd.	Foothills	2,7,10&15-24-47-20-5	Bituminous	1918
846	McLeod River Hard Coal (1941) Ltd.	Mercoal	4-25-48-22-5	Bituminous	1920
*1002	Sterling Coal Valley Mining Co.Ltd.	Coal Valley	W.½ of 10-25-47-20-5	Bituminous	1922
**1157	North Western Coal & Oil Ltd.	Robb	Pts.of Secs.15,16,21,22-49-21-5	Bituminous	1950
*1692	Long Coal Co.	Coalspur	7-23-48-21-5	Bituminous	1949
	Crowsnest Area				
** 87	West Canadian Collieries Ltd.	Bellevue	10-20- 7- 3-5	Bituminous	1903
** 88	International Coal & Coke Co. Ltd.	Coleman	11- 8- 8- 4-5	Bituminous	1903
133	Hillcrest Mohawk Collieries Ltd.	Bellevue	S.E. ¼ of 21- 7- 3-5	Bituminous	1907
199	Beaver Mines Coal Co.	Beaver Mines	2-12- 7- 2-5	Bituminous	1909
** 204	McGillivray Creek Coal & Coke Co.	Coleman	S.W. ¼ of 2-17- 8- 4-5	Bituminous	1909
** 396	West Canadian Collieries Ltd.	Blairmore	10- 2- 8- 4-5	Bituminous	1913
1584	West Canadian Collieries Ltd.	Blairmore	15-31- 6- 3-5	Bituminous	1942
*1695	Hillcrest Mohawk Collieries Ltd.	Bellevue	7- 6-5	Bituminous	1949
	Drumheller Area				
346	Rosedale Collieries Ltd.	Rosedale	14-28-28-19-4	Sub-bituminous	1912
367	Midland Coal Mining Co. Ltd.	Drumheller	14- 9-29-20-4	Sub-bituminous	1912
402	Red Deer Valley Coal Co. Ltd.	Drumheller	N.E.¼ Rd.Allow. 18-29-20-4	Sub-bituminous	1913
422	Century Coals Ltd.(Commander Mine)	Drumheller	5- 9-29-20-4	Sub-bituminous	1914
436	Rosedale Collieries Ltd.	Aerial	S.E. ¼ of 7-28-28-19-4	Sub-bituminous	1914
1258	Brilliant Coal Co. Ltd.	Drumheller	14-10-29-20-4	Sub-bituminous	1927
1299	Saskatchewan Fed. Co-ops Ltd.	East Coulee	S.W. ¼ of 32-27-18-4	Sub-bituminous	1929
1421	Saskatchewan Fed. Co-ops Ltd.	Drumheller	4,5&12-14-29-20-4	Sub-bituminous	1933
1436	Royalty Coal Mining Co.	Wayne	13-20-28-19-4	Sub-bituminous	1933

LIST OF MINES - Continued

Mine No.	Operator	Address	Location L.S.S. T. R. M.	Character of Coal	Date of Opening
1484	Century Coals Ltd. (Atlas Mine)...	Drumheller.....	N.W. ¼ of 13-21-27-18-4	Sub-bituminous.....	1935
1491	Murray Collieries Ltd.....	Drumheller.....	S.E. ¼ of 29-27-18-4	Sub-bituminous.....	1936
**1511	Aetna Coals Ltd.....	Wayne.....	1-22-28-19-4	Sub-bituminous.....	1937
1515	E.R. James.....	East Coulee.....	10,11,14&15-22-28-18-4	Sub-bituminous.....	1950
1520	The Minute Coal Co.....	Drumheller.....	3,6&11-14-29-20-4	Sub-bituminous.....	1937
1570	Sovereign Coal Co. Ltd.....	Wayne.....	N.E. ¼ of 8- 7-28-19-4	Sub-bituminous.....	1940
1573	Monarch Coal Mining Co. Ltd.....	Drumheller.....	1-20-27-18-4	Sub-bituminous.....	1940
*1599	H.S. Chambers.....	Drumheller.....	12-23-28-18-4	Sub-bituminous.....	1943
1655	J. Wakaruk.....	Drumheller.....	W. & E. ½ of 9&10-22-29-20-4	Sub-bituminous.....	1947
*1668	Victor Leonhardt.....	Drumheller.....	3-12-29-20-4	Sub-bituminous.....	1948
*1669	Joy Coal Mining Co. Ltd.....	Cambria.....	11,12&13-18-28-19-4	Sub-bituminous.....	1948
	Edmonton Area				
99	Great West Coal Co. Ltd.....	Clover Bar.....	S.E. ¼ of 10- 7-53-23-4	Sub-bituminous.....	1903
* 129	Sundance Mines Ltd.....	Cardiff.....	N.E. ¼ of 16-14-55-25-4	Sub-bituminous.....	1907
720	Harry Ebert.....	Calmar.....	N.W. ¼ of 5-51-25-4	Sub-bituminous.....	1950
1098	Double "E" Collieries.....	Namao.....	4-31-54-24-4	Sub-bituminous.....	1923
1266	Edmonton Collieries.....	Namao.....	14-36-54-25-4	Sub-bituminous.....	1927
1316	Samis Collieries Ltd.....	Namao.....	6-36-54-25-4	Sub-bituminous.....	1929
*1366	Beverly Coals Ltd.....	Beverly.....	6-13-53-24-4	Sub-bituminous.....	1931
*1419	Pine Creek Collieries Ltd.....	South Edmonton.....	4-25-51-25-4	Sub-bituminous.....	1933
1463	Riverdale Coals Ltd.....	Edmonton.....	N.E. Corn. 14- 5-55-24-4	Sub-bituminous.....	1934
1496	G.S. Gwilliam & Samis.....	Namao.....	3- 6-55-24-4	Sub-bituminous.....	1936
1560	Kost Nirko.....	South Edmonton.....	10-25-51-25-4	Sub-bituminous.....	1939
*1582	Egg Lake Coal Co. Ltd.....	Morinville.....	13&14-36-56-26-4	Sub-bituminous.....	1939

LIST OF MINES - Continued

Mine No.	Operator	Address	Location L.S.S. T. R. M.	Character of Coal	Date of Opening
1626	J.B. Starkey Co. Ltd.	St. Albert	S.W. ½ 4-36-54-25-4	Sub-bituminous	1945
*1627	Beverly Coal Ltd.	Carbondale	S.W. ¼ 17-55-24-4	Sub-bituminous	1945
1628	Blue Point Mine	South Edmonton	15-23-51-25-4	Sub-bituminous	1945
*1632	C.F. MacLachlan	Ardrossan	N. ¼ of 8&9- 2-53-21-4	Sub-bituminous	1945
1635	Morinville Collieries Ltd.	Morinville	1-32-55-25-4	Sub-bituminous	1945
1641	A. Horkulak	South Edmonton	9,10,15&16-26-51-25-4	Sub-bituminous	1946
*1658	T. Opalinski	Ellerslie	15-26-51-25-4	Sub-bituminous	1947
*1684	J.G. Mucha	South Edmonton	10-25-51-25-4	Sub-bituminous	1948
*1696	Adelard Houle	Morinville	1,2,7&8-36-56-26-4	Sub-bituminous	1949
*1724	Banner Coals Ltd.	Edmonton	2 of 24-15 of 13-55-25-4	Sub-bituminous	1951
	Gleichen Area				
72	Blackfoot Indians	Gleichen	Blackfoot Indian Reserve	Sub-bituminous	1902
1265	Hans Castella & Sons	Standard	5&12-11-25-22-4	Sub-bituminous	1927
1431	H. Rassmussen & C.H. Fleischer	Rosebud	3&6-29-26-21-4	Sub-bituminous	1933
1521	William McWillan	Rosebud	14-20-26-21-4	Sub-bituminous	1937
	Halcourt Area				
651	Baldwin Collieries Ltd.	Grande Prairie	15-35-70- 7-6	Bituminous	1916
*1704	Michael Romanuik	Beaverlodge	N. & S. ½ 3&6-21-70-10-6	Bituminous	1949
	High Prairie Area				
1722	John Navara	DeBolt	N.½'s 13&14-27-70- 1-6	Sub-bituminous	1951
	Lethbridge Area				
56	A. Razzolini	Magrath	3- 7- 7-21-4	Bituminous	1902
738	J.A.S. Wukusich	Lethbridge	2&7-11- 8-22-4	Bituminous	1909
889	George Rollingson & Son	Lethbridge	E. & W. ½ 15&16- 2- 8-22-4	Bituminous	1950
1086	S. Kocsis & S. Varga	Lethbridge	5&12- 8- 7-21-4	Bituminous	1923

LIST OF MINES - Continued

Mine No.	Operator	Address	Location L.S.S. T. R. M.	Character of Coal	Date of Opening
1263	Lethbridge Collieries Ltd....	Shaughnessy.....	11-30-10-21-4	Bituminous.....	1927
1464	Lethbridge Collieries Ltd....	Lethbridge.....	3- 2- 9-22-4	Bituminous.....	1934
1581	J.J. Hamilton Coal Co. Ltd...	Lethbridge.....	5,6,10,12&15-24- 9-22-4	Bituminous.....	1941
*1685	L.C. McClain.....	Magrath.....	Pt of 18- 7-21-4	Bituminous.....	1948
	Milk River Area				
1301	A. Koshman & J. Martell.....	Lucky Strike.....	7,8,9&10-10- 3-11-4	Sub-bituminous.....	1929
	Mountain Park Area				
** 693	Cadomin Coal Co. Ltd.....	Cadomin.....	14-31-46-23-5	Bituminous.....	1917
** 905	Luscar Coals Ltd.....	Luscar.....	7-23-47-24-5	Bituminous.....	1921
**1392	Gregg River Collieries Ltd...	Gregg River.....	8-28-47-24-5	Bituminous.....	1932
1617	Luscar Coals Ltd.....	Luscar.....	27-47-24-5	Bituminous.....	1943
	Nordegg Area				
** 256	Brazeau Collieries Ltd.....	Nordegg.....	40-15-5	Bituminous.....	1910
	Pakowki Area				
1318	M.R. Johnson & E. Davis.....	Elkwater.....	10-23- 8- 3-4	Sub-bituminous.....	1929
	Pekisko Area				
1516	Ideal Coal Co.....	Calgary.....	10- 4-22- 3-5	Bituminous.....	1937

LIST OF MINES - Continued

Mine No.	Operator	Address	Location L.S.S. T. R. M.	Character of Coal	Date of Opening
	Pembina Area				
* 419	Alberta Southern Coal Co. Ltd.	Wabamun	16- 9-53- 4-5	Sub-bituminous	1913
*1495	Pembina Peerless Coal Co. Ltd.	Entwistle	N.W. ¼ of 34-53- 7-5	Sub-bituminous	1936
*1592	Mt. Royal Collieries	Edmonton	E. ½ of 30-52- 4-5	Sub-bituminous	1943
*1644	Strawberry Creek Coal Co.	Warburg	16-13-49- 3-5	Sub-bituminous	1946
*1645	Lothian Collieries Ltd.	Wabamun	10-15-53- 4-5	Sub-bituminous	1946
1652	N. Fry & T. Larson	Seba Beach	16-25-53- 6-5	Sub-bituminous	1946
1657	J. Lidgett & L. Opheim	Entwistle	S. ½ of 16&9-10-54- 7-5	Sub-bituminous	1947
*1670	Pinter Coals Ltd.	Warburg	14-13-49- 3-5	Sub-bituminous	1948
*1687	James Sturms	Genesee	N.E. ¼ of 15-50- 4-5	Sub-bituminous	1948
1690	Karl Schon & M.J. Hoover	Edmonton	4,5,6,11&12- 8-50- 6-5	Sub-bituminous	1949
*1712	F. Foder & W. Foder	Warburg	N.W. ¼ 20-49- 2-5	Sub-bituminous	1950
*1715	Samuel Giovinazzo	Highvale	16- 8-52- 4-5	Sub-bituminous	1950
	Prairie Creek Area				
1296	Dunn & Finlay	Hinton	3&6-19-51-24-5	Bituminous	1929
1653	Hinton Hard Coal Co.	Hinton	4-29-50-25-5	Bituminous	1946
1714	H. Schnur	Hinton	7-11-51-25-5	Bituminous	1950
	Redcliff Area				
772	Ajax Coal Co. Ltd.	Medicine Hat	2- 5-13- 6-4	Sub-bituminous	1918
	Red Deer Area				
1448	Sundre Coal	Sundre	13- 5-32- 6-5	Bituminous	1933

LIST OF MINES - Continued

Mine No.	Operator	Address	Location	L.S.S. T. R. M.	Character of Coal	Date of Opening
	Rochester Area					
*1686	Marwood S. Alexander	Edmonton		8-11-66-24-4	Sub-bituminous	1948
	Saunders Area					
388	Bighorn & Saunders Creek Colls.	Saunders	N.& S. ½ of	8&9-24-40-13-5	Bituminous	1913
852	Alexo Coal Co. Ltd.	Alexo	N.W. ¼ of	9-27-40-13-5	Bituminous	1920
	Sheerness Area					
* 443	Chinook Coal Co. Ltd.	Sheerness		1-12-29-13-4	Sub-bituminous	1914
*1314	J. Gaetz	Hanna		1- 6-29-14-4	Sub-bituminous	1929
*1398	T.G. Ironside & A. Glover	Scapa		12- 5-34-13-4	Sub-bituminous	1932
*1401	Fred Pahl	Hanna	E. & W. ½ of	7&8-30-32-13-4	Sub-bituminous	1932
*1432	Sheerness Coal Co. Ltd.	Sheerness		5-19-29-12-4	Sub-bituminous	1933
1553	John Masciangelo & Partners	Delia		9,10,15&16-21-30-17-4	Sub-bituminous	1939
*1597	Crystal Mine	Hanna		16-12-29-13-4	Sub-bituminous	1943
*1699	J.I. Stirling & W.J. Friedley	Delia	S.W. ¼ of	21-30-17-4	Sub-bituminous	1949
	Taber Area					
228	Omer J. Malo	Taber		1-19-10-16-4	Sub-bituminous	1910
672	C.R. Cooke	Winnifred		3-27-12-10-4	Sub-bituminous	1916
838	D. McCracken & Goering	Suffield		7-28-12-10-4	Sub-bituminous	1919
*1334	Continental Coal Corporation Ltd.	Grassy Lake		1,7&8-26- 9-13-4	Sub-bituminous	1930
1536	Oliver Coal Mine	Taber		2-18-10-16-4	Sub-bituminous	1938
*1604	Alberta Southern Coal Co. Ltd.	Taber		12-10-17-4	Sub-bituminous	1943
*1705	J.P. Neufeld	Grassy Lake	N. & S. ½	4&5-25- 9-13-4	Sub-bituminous	1949

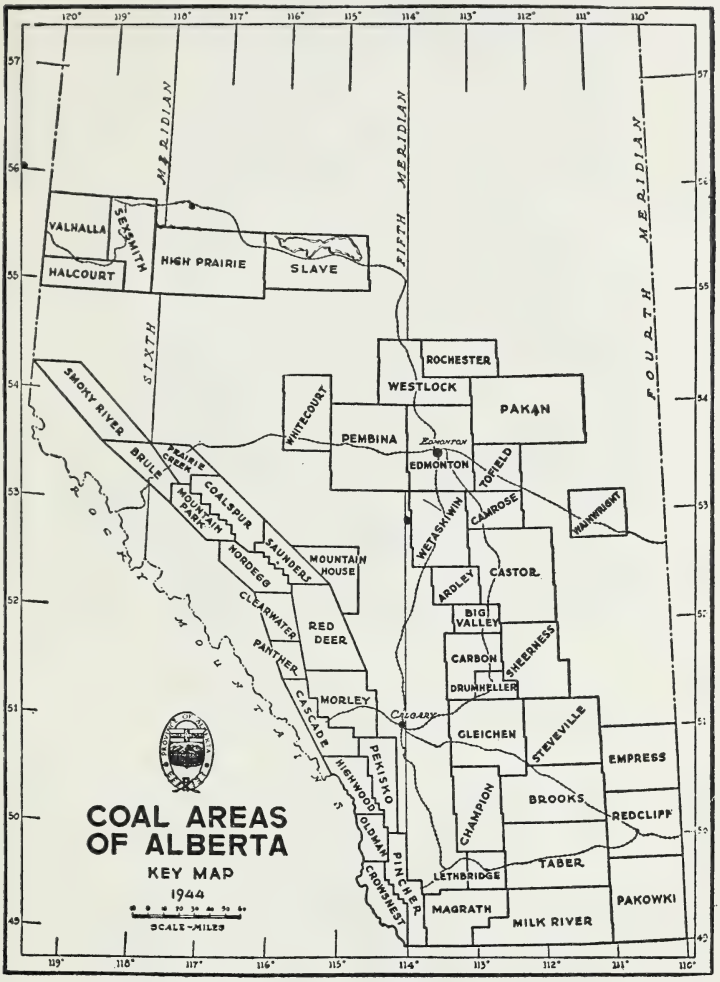
LIST OF MINES - Continued

Mine No.	Operator	Address	Location L.S.S. T. R. M.	Character of Coal	Date of Opening
	Tofield Area				
* 215	Emil Skarin	Dodds	7-14-49-18-4	Sub-bituminous	1909
* 252	Tofield Coal Co. Ltd.	Tofield	N. ½ of 26-50-19-4	Sub-bituminous	1910
*1107	Black Nugget Coal Co. Ltd.	Dodds	15-11-49-18-4	Sub-bituminous	1923
1206	Ryley Coal Co. Ltd.	Ryley	1&8- 8-49-17-4	Sub-bituminous	1925
**1624	Christopher Binder	Ryley	5- 9-49-17-4	Sub-bituminous	1944
	Westlock Area				
*1517	John Melesko	Thorhild	N. & S. ½ 12&13-12-60-21-4	Sub-bituminous	1937
*1523	Picardville Coal Co.	Picardville	E. ½ of 8-35-58-27-4	Sub-bituminous	1945
*1562	Northpoint Coal Co. Ltd.	Thorhild	1-11-60-21-4	Sub-bituminous	1939
	Wetaskiwin Area				
1534	Peter Gill	Thorsby	3&6- 3-48-27-4	Sub-bituminous	1938
	Whitecourt Area				
*1569	Alex Watson	Blue Ridge	Pt. of 12&13-19-59-10-5	Sub-bituminous	1940
1681	Edward Hughes	Mayerthorpe	N. ½ of 14&15-35-59- 9-5	Sub-bituminous	1948
	No Area				
*1720	J.A. MacDonald	Grande Prairie	Unsurveyed Territory 64-7- 6	Bituminous	1950

The following table gives particulars of Quarries which were in operation during the year 1951 in the Province:

LIST OF QUARRIES

Quarry No.	Operator	Address	Location L.S.S. T. R. M.	Date of Opening
	Cascade Area			
Q 2	Canada Cement Co. Ltd.	Exshaw	Pts. of 27&28-24- 9-5	1906
Q 3	Loder's Lime Co. Ltd.	Exshaw	Pts. of 25&36-24- 9-5	1906
Q 13	Rock Wool Products Ltd.	Exshaw	19-24- 9-5	1947
Q 15	Gypsum, Lime & Alabastine Can. Ltd.	Calgary	26-24- 9-5	1951
	Crowsnest Area			
Q 8	Summit Lime Works Ltd.	Crowsnest	7- 7- 8- 5-5	1920
	Drumheller Area			
Q 11	Gordon L. Kidd	Drumheller	6,7,9&10-14-29-20-4	1935
	Edmonton Area			
Q 1	J.B. Little & Sons Ltd.	Edmonton	Blk. A.&B. R.L. 20 in 53-24-4	1893
Q 5	Acme Brick & Tile Co.	Edmonton	N.E. ¼ of 21-53-25-4	1911
	Halcourt Area			
Q 16	K.J. Dalen	Grande Prairie	Pt. N.E. ¼ of 14-71- 6-6	1951
	Mountain Park Area			
Q 12	Mike Errico	Cadomin	31-46-23-5	1940
	Redcliff Area			
Q 4	Gunderson Brick & Coal Co. Ltd.	Redcliff	11&15- 5-13- 6-4	1908
Q 6	Redcliff Premier Brick Co. Ltd.	Redcliff	N.W. ¼ of 9-13- 6-4	1912
Q 7	Redcliff Pressed Brick Co. Ltd.	Redcliff	S.W. ¼ of 9-13- 6-4	1913
Q 9	Medicine Hat Brick & Tile Co. Ltd.	Medicine Hat	13-28-12- 5-4	1930
Q 10	Alberta Clay Products Co. Ltd.	Medicine Hat	N.& S.E. ¼ of 27&34-11- 5-4	1930
Q 14	Medicine Hat Sand & Gravel Co. Ltd.	Medicine Hat	31-12- 4-4	1950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HIGH PRAIRIE
SLAVE
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WESTLOCK
PAKAN
WHITECOURT
PEMBINA
Edmonton
EDMONTON
TOFIELD
SMOKY RIVER
BRULE
PRAIRIE CREEK
COALSPUR
MOUNTAIN PARK
NORDEGG
SAUNDERS
MOUNTAIN HOUSE
WETASKIWIN
CAMROSE
WAINWRIGHT
ARDLEY
CASTOR
BIG VALLEY
CLEARWATER
RED DEER
CARBON
SHEERNESS
DRUMHELLER
PANTHER
CASCADE
MORLEY
Calgary
GLEICHEN
STEVEVILLE
EMPRESS
PEKISKO
HIGHWOOD
OLDMAN
CHAMPION
BROOKS
REDCLIFF
PINCHER
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